New York State Museum Bulletin

Entered as second-class matter November 27, 1915, at the Post Office at Albany, New York, under the act of August 24, 1912

Published monthly by The University of the State of New York

No. 188 ALBANY, N. Y. AUGUST 1, 1916

The University of the State of New York

New York State Museum

JOHN M. CLARKE, Director

REPORT OF THE STATE BOTANIST 1915

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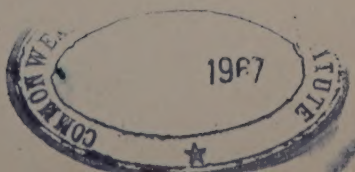
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The University of the State of New York

Science Department, March 15, 1916

Dr John H. Finley
President of the University

SIR:

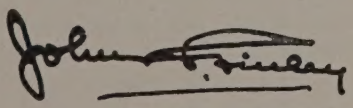
I have the honor to transmit herewith for publication as a bulletin of the State Museum the annual report of the State Botanist with the necessary illustrative matter pertaining thereto.

Very respectfully yours

JOHN M. CLARKE
Director

THE UNIVERSITY OF THE STATE OF NEW YORK
OFFICE OF THE PRESIDENT

Approved for publication this 22d day of March 1916



President of the University

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No. 188 ALBANY, N. Y. August 1, 1916

The University of the State of New York

New York State Museum

John M. Clarke, *Director*

REPORT OF THE STATE BOTANIST 1915

John M. Clarke
Director, Science Department

Sir:

I beg to communicate herewith my report on the work of the State Botanist for the fiscal year 1915.

Very respectfully
Homer D. House
State Botanist

Scientific investigations. The investigations of the State Botanist during the season of 1915 have been directed chiefly toward the collection, identification and preparation of specimens of plants and fungi for the state herbarium. A limited amount of time has been spent in the study of the vegetation and ecology of the Oneida lake region.

The diversified character of the vegetation of New York has attracted the attention of botanists since the earliest colonial days and since the publication at Upsala between the years 1743 and 1751 of "Plantae Coldenghamiae" by Cadwallader Colden, the earliest publication relating specifically to the flora of this State, down to the present time, over 350 separate articles and books have been published bearing upon the flora of the State by 185 different authors. The growth of scientific societies in most of the larger cities and the progress of botanical work in colleges and universities throughout the State has contributed largely to the study of local floras with a corresponding increase in the publications upon the vegetation of the State. A complete bibliography which may serve

as a source of information regarding the publications upon the flora of the State and as a guide in future investigations seems particularly opportune at this time. Considerable time has been given to the preparation of such a bibliography, which is printed in this report.

Plant diseases. The principal plant diseases caused by fungi which have been submitted to this office have been parasitic leaf diseases of ornamental and shade trees species. The most noteworthy is a disease of the foliage of wild and cultivated clematis caused by Ascochyta clematidina; a disease of oak leaves caused by Gloeosporium canadense and also a peculiar association of an insect gall and Phyllosticta phomiformis; diseases of the leaves of the woodbine or Virginia creeper caused by Cercospora ampelopsidis and Phyllosticta ampelopsidis, and a disease of horse chestnut leaves caused by Phyllosticta paviae. These are illustrated and discussed in another place under "New or Interesting Species of Fungi."

Memoir on the Wild Flowers of New York. Active work upon this project was begun in August and photographs were made in central New York, vicinity of Albany, Catskill, New York, and on Long Island, of over 150 flowering plants which bloom during the latter part of the summer and autumn, using both dry and lumiere plates. Preliminary proofs of several of the illustrations have been received showing the natural color and grace of the wild plants in a manner that could not be secured by any other process. A few of these are published in this report.

Exchanges. Valuable exchanges of herbarium material have been effected whereby the state herbarium has been enriched by the addition of 254 specimens from Prof. J. J. Davis of the University of Wisconsin, 47 specimens from the New York Botanical Garden, 62 specimens from Prof. John Dearness of London, Ont., and 68 specimens from Prof. L. H. Pennington of Syracuse University, in addition to several minor exchanges.

Condition of the collections. With the addition to the staff of Mr Joseph Rubinger, the assistant botanist, it has been possible to place the state herbarium in an excellent condition as regards arrangement and availability of material for study. The collections, exchanges and contributions of the current year have been mounted and placed in the herbarium together with a large quantity of unmounted material which had accumulated in years past.

Additions to the herbarium. The number of specimens which have been added to the herbarium during the past year from current collections is 584, from contributions and exchanges 396, a total of 980 specimens, representing 938 species, in addition to more than 400 additional specimens which have been mounted from the unnamed material accumulated in the past. Of these, 222 species were not previously represented in the herbarium and 30 species and varieties are described as new to science. The number of those who have contributed specimens to the herbarium is 20. This includes those who have sent specimens merely for identification and which were desirable additions to the herbarium.

Identifications. The State Botanist's office has been called upon to identify or report upon 650 specimens of flowering plants, ferns, mosses, lichens and fungi, by 110 different persons.

PLANTS ADDED TO THE HERBARIUM

New to the herbarium

(Flowering plants)

Ammsonia ammsonia (*L.*) *Britton*
Aristida oligantha *Michx.*
Aster inanthinus *Burgess*
" multiformis *Burgess*
" tenebrosus *Burgess*
Carex hormathodes *Fernald*
Cathartolinum sulcatum (*Ridell*) *Small*
Chaenorrhinum minus (*L.*) *Lange*
Chamaesyce glyptosperma (*Engelm.*) *Small*
Crepis biennis *Linn.*
Elymus glaucus *Buckley*
Galeopsis ladanum *L. var.* latifolia *Wallr.*
Hypericum densiflorum *Pursh*
Panicum ashei *Pearson*
" commonsianum *Ashe*
" lindheimeri *Nash*
Polygonum buxiforme *Small*
" prolificum (*Small*) *Robinson*
Pyrola asarifolia *Michx.*
Tagetes erecta *Linn.*

(Fungi)

Acanthostigma occidentale *E. & E.*
Aecidium laricis *Kleb.*
" liatridis *Ell. & And.*
Aleurodiscus farlowi *Burt*
Ascochyta lophanthi *Davis*
" pisi Lib., *f.* lupini *Sacc.*
" wisconsina *Davis*

Basidiophora entospora *Roze & Cornn.*
Botryosphaeria fuliginosa *M. & N.*

Caeoma stobilinum *Arthur*
Calosphaeria cornicola *E. & E.*
Cercospora althaeina *Sacc.* var. praecincta *Davis*
" caricina *Ell. & Dearn.*
" caricis *Dearness & House*
" ceanothi *Kell. & sw.*
" cercidicola *Ellis*
" comandrae *Ell. & Dearn.*
" diffusa *E. & E.*
" dioscoreae *E. & M.*
" fingens *Davis*
" gayophyti *E. & E.*
" geranii *Kell. & Sw.*
" megalopotanica *Speg.*
" negundinis *E. & E.*
" omphacodes *Ell. & Holw.*
Cercospora passaloroides *Wint.*
" pentstemonis *E. & K.*
" perfoliata *E. & E.*
" sagittariae *Ell. & Kell.*
" sequoiae var. juniperi *E. & E.*
" stomaticae *Ell. & Davis*
Cintractia subinclusa (*Koern.*) *Magn.*
Coleosporium viburni *Arthur*
Coletotrichum graminicolum (*Ces.*) *Wils.*
Cornularia persicae (*Schw.*) *Sacc.*
Corticium atrovirens *Berk.*
" epigaeum *E. & E.*
" laetum *Karst.*
" roseopallens *Burt*
Coryneum umbonatum *Nees*
Craterellus ochrosporus *Burt*
Cucurbitaria ceanothi *D. & H.*
Cylindrosporium apocyni *E. & E.*
" betulae *Davis*
" clematidis *E. & E.*
" eryngii *Ell. & Kell.*
" glyceriae *E. & E.*
" negundinis *E. & E.*
" shepherdiae *Sacc.*
" vermiforme *Davis*
Cyphella conglobata *Burt*

Darluca bubakiana *Kabat*
Dendrophoma albomaculans (*Schw.*) *Starb.*
Diaporthe ailanthi *Sacc. var.* viburni *Dearness & House*
" comptonae (*Schw.*) *E. & E.*
" minuta *Dearness & House*
" tuberculosa (*Ell.*) *Sacc.*
" *var.* pruni *Dearness & House*
Didymosphaeria empetri (*Fr.*) *Sacc.*
" housei *Dearness*
Diplodia ceanothi *Dearness & House*
" microspora *B. & C.*
Dothidella vacciniicola *Dearness & House*
Doaassansia ranunculina *Davis*

Eichleriella leveilliana (*B. & C.*) *Burt*
Entomosporium thumeni (*Cke.*) *Sacc.*
Entyloma floerkeae *Holway*
Eutypa ludibunda *Sacc.*
Eutypella stellulata (*Fr.*) *Sacc.*

Fabraea rousseauana *Sacc. & Bomm.*
Flammula penetrans *Fr.*
Fusicladium radiosum *var.* microscopium (*Sacc.*) *Allesch.*

Gloeosporium alnicola *Dearness & House*
" argemonis *E. & E.*
" aridum *Ell. & Holw.*
" catalpae *E. & E.*
" confluens *Ell. & Dearn.*
" cylindrosporium (*Bon.*) *Sacc.*
" falcatum *Dearness & House*
" hydrophylli *Dearness & House*
" saccharinum *E. & E.*
" thalictri *Davis*
Gnomonia beneta (*Sacc. & Speg.*) *Kleb.*
Gymnosporangium davisii *Kern*
" juvenescens *Kern*

Hypochnus olivascens (B. & C.) *Burt*
" subferrugineus *Burt*

Keithia thujina *Durand*
" tsugae *Farlow*

Lactaria mucida *Burlingham*
Leptonia euchlora (*Lasch*) *Quel.*
Leptosphaeria triglochinis *Schroet.*

Macrophoma viburni *Dearness & House*
Marsonia fraxini *Ell. & Davis*
Marsonia neilliae (*Harkness*) *Magn.*
" marini (*S. & E.*) *Magn.*
Massaria plumigera *var.* tetraspora *Dearness & House*
Metasphaeria varia *Dearness & House*

Nigredo rhyncosporae (*Ellis*) *Arthur*

Ovularia asperifolii *Sacc. var.* lapulae *Davis*
" destructiva (*Phil. & Plowr.*)

Peniophora affinis *Burt*
" crassa *Burt*
" longispora *Pat.*
" laevis (*Fr.*) *Burt*
" sanguinea *Fr.*
" sordida *Karst.*
Peronospora calotheca *DeBary*
" polygoni *Thüm.*
" rubi *Rabenh.*
" viciae (*Berk.*) DeBy. *var.* americana *Davis*
Pestalozzia flagellifera *E. & E.*
Phleospora celtidis *Ell. & Mart.*
" chenopodii *E. & K.*
Phoma florida *Dearness & House*
" imperalis *Sacc. & Roum.*
" linariae *Dearness & House*
" longipes *B. & C.*
" pectinata *Dearness & House*
" platinocola *D. & H.*
Phyllosticta ambrosiodes *Thüm.*
" destruens *Desm.*
" lentaginis *Sacc. & Syd.*
" punctata *Ell. & Dearn.*
" simillispora *Ell. & Davis*
" steironematis *Dearness & House*

Physalospora ambrosiae *E. & E.*
Protomyces andinus *Speg.*
Plasmopara humuli *Miyabe & Takahashi*
" ribicola *Schroet.*
Phytophthora thalictri *Wils. & Davis*
Puccinia conii (*Strauss*) *Fckl.*
" cyperi *Arthur*
" milii *Erikss.*
" ornata *Arthur & Holw.*
" panici *Dietel.*
" perminuta *Arthur*
" poarum *Niels*
" pygmea *Erikss.*
" rubifaciens *Johans.*
" sessilis *Schw.*
" seymouriana *Arthur*
" tetramerii *Seym.*
" tomipara *Trelease*
" windsoriae *Schw.*

Ramularia brunellae *E. & E.*
" cichorii *Dearness & House*
" lysimachiae *Thüm.*
" puntiformis (*Schl.*) *var. Hoehn.*
" reticulata *E. & E.*
" rosea (*Fckl.*) *Sacc.*
" smilacinae *Davis*
" uredinis (*Voss*) *Sacc.*
" virgaureae *Thüm.*

Sclerotium globuliferum *Davis*
Scolescosporium coryli *Dearness & House*
Septoria acerella *Sacc.*
" asclepiadicola *E. & E.*
" astericola *E. & E.*
" brevispora *Ell. & Davis*
" brunellae *Ell. & Holw.*
" cephalanthi *Ell. & Kell.*
" consimilis *E. & M.*
" davisii *Sacc.*
Septoria dimera *Sacc.*
" dolichospora *E. & E.*
" helenii *E. & E.*
" lophanthi *Wint.*
" mollisia *Dearness & House*
" nubilosa *E. & E.*
" pachyspora *Ell. & Holw.*
" parietariae *Davis*
" physostegiae *E. & E.*
" polaris *Karst.*
" polymniae *E. & E.*
" prenanthis *E. & E.*
" rudbeckiae *Ell. & Holw.*
" silphii *E. & E.*
" salicifoliae (*Trel.*) *Berl. & DeToni*
" stachydis *R. & D.*
" tenuis *Dearness & House*
" zanthiifoliae *Ell. & Kell.*
Sphaerella ciliata *E. & E.*
Sphaeropsis ailanthi *Ell. & Barth.*
" ceanothi *Dearness & House*
" coryli *E. & E.*
" parallela *Dearness & House*
" physocarpi *E. & E.*
" viburni-dentati *Dearness & House*
Stagonospora convolvuli *Dearness & House*
Synchytrium scirpi *Davis*

Taphrina potentillae (*Farlow*) Johans.
Thelephora scissilis *Burt*

Urocystis agropyri (*Preuss.*) *Schroet.*
Uromyces galphiniae *Diet. & Holw.*
" poinsettiae *Tranz.*
" rudbeckiae *A. & H.*

Vermicularia polygoni-virginici *Schw.*

Not New to the Herbarium

Aecidium ceanothi *Ell. & Kell.*
" chelonis *Ger.*
" compositarum *Mart.*
" euphorbiae *Pers.*
" falcatae *Arthur*
Aecidium hydnoideum *B. & C.*
" lupini *Peck*
" nesaeae *Ger.*
" proserpinaceae *B. & C.*
" roestelioides *E. & E.*

Aecidium senecionis *Desm.*
Agaricus diminutivus *Peck*
" placomyces *Peck*
" sylvicola *Vitt.*
Albugo candida (*Pers.*) *Kuntze*
" tragopogonis (*DC.*) *S. F. Gray*
Antrodia mollis (*Sommerf.*) *Karsten*
Ascochyta clematidina *Thüm.*
" colorata *Peck*
Asterina gaultheriae *Curt.*
" rubicola *E. & E.*
Asterostroma cervicolor (B. & C.) Massee

Bactridium flavum *Kze. & Schum.*
Bjerkandera adusta (*Willd.*) *Karst.*
Boletinus pictus *Peck*
Burrillia pustulata *Setch.*

Calyptospora columnaris (*A. & S.*) *Kuhn*
Cercospora apocyni *E. & K.*
" beticola *Sacc.*
" boehmeriae *Peck*
" callae *Peck*
" comari *Peck*
" condensata *Ell. & Kell.*
" diffusa *E. & E.*
" echinocystis *E. & M.*
" effusa (*B. & C.*) *E. & E.*
" gerardiae *Ell. & Dearn.*
" granuliformis *Ell. & Kell.*
" gymnocladi *Ell. & Holw.*
" longispora *Peck*
" physalidis *Ellis*
" pyri *Farlow*
" racemosa *Ell. & Mart.*
" rhamni *Fckl.*
" ribicola *E. & E.*
" symplocarpi *Peck*
" zebrina *Pass.*
Cercosporella apocyni *Ell. & Kell.*
Ceriomyces subglabripes (*Peck*) *Murrill*
Chanterel infundibuliformis (*Scop.*) *Fr.*
" muscoides (*Wulf.*) *Murrill*
" umbonatus *Fr.*
Chlorosplenium aeruginosum (*Oed.*) *DeNot.*
Cladosporium ramulosum *Desm.*
" typhae *Schw.*
Claudopus nidulans (*Pers.*) *Peck*
Clavaria mucida *Pers.*
" pinophila *Peck*
" pistillaris *Linn.*
Clitocybe clavipes (*Pers.*) *Fr.*
" sinopica *Fr.*
Clitopilus abortivus *B. & C.*
Coleosporium sonchi-arvenis (*Pers.*) *Lev.*
" solidaginis (*Schw.*) *Thüm.*
Collybia dryophila *Bull.*
" maculata *A. & S.*
" strictipes *Peck*
" tuberosa *Bull.*
Coniophora arida *Fr.*
" puteana *Schum.*
" olivescens (*B. & C.*) *Massee*
" suffocata *Peck*
Coniothyrium concentricum *Desm.*
Corticium effuscatum *C. & E.*
" alutaceum (*Schrad.*) *Bres.*
" berkeleyi *Cooke*
" colliculosum *B. & C.*
" mutatum *Peck*
" evolvens *Fr.*
" sambuci *Fr.*
" fumosum *Fr.*
" investiens (*Schw.*) *Bres.*
" vagum *B. & C.*
Cortinarius armillatus *Fr.*
Craterellus cornucopioides *Pers.*
" odoratus (*Schw.*) *Fr.*
Cronartium comandrae *Peck*
" quercus (*Brond.*) *Schroet.*
Cryptospora aculeans (*Schw.*) *E. & E.*
Cudonia lutea (*Peck*) *Sacc.*
Cyphella fasiculata (*Schw.*) *B. & C.*
Cytospora rhoina *Fr.*

Daedalea quercina (*L.*) *Pers.*
Daldinia concentrica (*Bolt.*) *Ces. & DeNot.*
Dendrophoma cephalanthi *Peck*

Diaporthe acerina (*Pk.*) *Sacc.*
" obscura *Peck*
Diatrype stigma (*Hoffm.*) *Fr.*
Dimerosporium melioloides (*B. & C.*)
Diplodia cercidis *E. & E.*
" linderae *E. & E.*
Discosia maculicola *Ger.*
Doassansia alismatis (*Nees*) *Cornu.*
" affinis *Ell. & Dearn.*
" deformans *Setch.*
" martianoffiana (*Thüm.*) *Schult.*

Elaphomyces variegatus *Tul.*
Elfvingia fomentaria (*L.*) *Murrill*
Entyloma compositarum *Farlow*
" lineatum (*Cooke*) *Davis*
" menispermi *Farlow*
" microsporum (*Ung.*) *Schroet.*
" nymphaeae (*DC.*) *Setch.*
" ranunculi (*Bon.*) *Schroet.*
" thalictri *Schroet.*
" physalidis (*Kl. & Cke.*) *Wint.*

Erysiphe martii *Link*
Eutypella glandulosa *Cooke*
Exoascus communis *Sadeb.*
" betulinus (*Rost.*) *Sadeb.*
" insitiae *Sadeb.*

Flammula carbonaria *Fr.*
Fomes populinus (*Schum.*) *Cooke*
" roseus (*Alb. & Schw.*) *Cooke*
" scutellatus (*Schw.*) *Cooke*
Fomitiporia prunicola *Murrill*
Fusarium heterosporum *Nees*
Fusicladium depressum *B. & Br.*

Geaster triplex *Jungh.*
Gelatinopoium abietinum *Peck*
Gloeophyllum hirsutum (*Schaeff.*) *Murrill*
" trabeum (*Pers.*) *Murrill*
Gloeosporium betularum *Ell. & Mart.*
" canadense *E. & E.*
" caryae *Ell. & Dearn.*
" coryli (*Desm.*) *Sacc.*
" divergens *Peck*
Gloeosporium nervicolum *G. Massal*
" robergii *Desm.*
" salicis *West.*
" sassafras (*Cooke*) *E. & K.*
" septorioides *Sacc.*
" trifolii *Peck*
Gnomonia beneta (*Sacc. & Speg.*) *Kleb.*
Gnomoniella eccentrica (*C. & P.*) *Sacc.*
Grandinia virescens *Peck*
Gymnosporangium clavaeaeforme (*Jacq.*) *DC.*
" globosum *Farlow*

Hapalopilus gilvus (*Schw.*) *Murrill*
" rutilans (*Pers.*) *Murrill*
Hendersonia staphyleae *E. & E.*
Holwaya gigantea (*Peck*) *Dur.*
Hydnum caput-ursi *Fr.*
" schiedermayeri (*Heufler*)
Hygrophorus fuligineus *Frost*
" pratensis (*Pers.*) *Fr.*
Hyphoderma commune (*Fr.*) *Duby*
Hypholoma fasciculare (*Huds.*) *Fr.*
Hypochnus granulosus (*Peck*) *Burt*
" fuscus (*Pers.*) *Fries*

Kuehneola ureninis (*Lk.*) *Arthur*

Lachnea hemisphaerica (*Wiggs.*) *Gill.*
Lactaria gerardii *Peck*
" ligniota *Fr.*
" subdulcis (*Pers.*) *Fr.*
" theiogala (*Bull.*) *Fr.*
" torminosa (*Schaeff.*) *Pers.*
" turpis (*Weinm.*) *Fr.*
Lenzites betulina (*L.*) *Fr.*
Leottia lubrica (*Scop.*) *Pers.*
Lepiota amianthina (*Scop.*) *Quell.*
" clypeolaria (*Bull.*) *Quell.*
Leptosphaeria doliolum *Pers.*
Leptothyrium periclymeni *Desm. var.* americana *E. & E.*
Leptostrimella hysterioides (*Fr.*) *Sacc.*
Libertiella betulina *Desm.*

Macrosporium saponariae *Peck*
" solani *E. & M.*
Marasmius confluens (*Pers.*) *Rickens*
Marsonia coronariae *Sacc. & Dearn.*
" juglandis (*Lib.*) *Sacc.*
" potentillae (*Desm.*) *Magn.*
" violae (*Pass.*) *Magn.*
Massaria vomitoria *B. & C.*
Melampsora medusae *Thüm.*
Melampsorella elatina (*Alb. & Schw.*) *Arthur*
Melampsoropsis ledi (*Lk.*) *Arthur*
" ledicola (*Pk.*) *Arthur*
Melanconium elongatum *Berk.*
Melanoleuca albissima (*Peck*) *Murrill*
" sejuncta (*Sow.*) *Murrill*
Merulius tremellosus *Schrad.*
" bellus *B. & C.*
Microsphaera vaccinii (*Schw.*) *C. & P.*
" alni (*Wallr.*) *Wint.*
Morchella semilibera *DC.*
Mycena epipterygia *Scop.*

Nigredo hedysari-paniculati (*Schw.*) *Arthur*
" polemonii (*Pk.*) *Arthur*
" proeminens (*DC.*) *Arthur*
" pyriformis (*Cke.*) *Arthur*
" spermacoces (*Schw.*) *Arthur*
Nummularia clypeus (*Schw.*) *Cooke*

Odontia trachytricha (*E. & E.*) *Burt*
Omphalia campanella *Batsch.*
" chrysophylla *Fr.*

Peniophora cinerea *Fr.*
" filamentosa (*B. & C.*) *Burt*
" incarnata *Fr.*
" pubera *Fr.*
" sanguinea *Fr.*
" velutina *DC.*
Peridermium comptoniae (*Arth.*) *Orton & Adams*
" balsamium *Peck*
Peronospora arthuri *Farlow*
" corydalis *DeBary*
" effusa (*Grev.*) *Rabh.*
" grisea *Ung.*
" hydrophlli *Waite*
" leptosperma *DeBary*
" lophanthi *Farlow*
" trifoliorum *DeBary*
Pestalozzia guepini *Desm.*
" monochaetoides *Sacc. & Ell.*

Phlebia radiata *Fr.*
Phleospora chenopodii *E. & K.*
" ulmi (*Fr.*) *Wallr.*
Pholiota caperata (*Pers.*) *Fr.*
" squarrosa *Muell.*
Phoma ailanthi *Sacc.*
" longipes *B. & C.*
" verbasicola (*Schw.*) *Sacc.*
Phragmidium occidentale *Arthur*
Phyllosticta ampelopsidis *E. & M.*
" apocyni *Trelease*
" chenopidii *Sacc.*
" cruenta (*Fr.*) *Kickx.*
" hamamelidis *Peck*
" innumerabilis *Peck*
" labruscae *Thüm.*
" liriodendri *Cooke*
" macrospora *E. & E.*
" minima *B. & C.*
" myricae *Cooke*
" paviae *Desm.*
" phomiformis *Sacc.*
" podophylli *Wint.*
" smilacis *E. & M.*
Phyllachora wittrockii (*Erikss.*) *Sacc.*
Physalospora ceanothina (*Peck*) *Sacc.*
" disrupta (*B. & C.*) *Sacc.*

Piggotia fraximi *B. & C.*
Piricularia parasitica *E. & E.*
Plasmopara geranii *Peck*
" halstedii (*Farlow*) *Berl. & DeToni*
" pygmaea (*Ung.*) *Schroet.*
" viticola (*B. & C.*) *Berl. & DeToni*

Pleurotus porrigens *Pers.*
" serotinus *Schrad.*
Polyporus dichrous *Fr.*
Poria calcea *Fr.*
" radula (*Pers.*) *Fr.*
" pulchella *Schw.*
" vaporaria *Fr.*
" vulgaris *Fr.*
Porodisculus pendulus (*Schw.*) *Murrill*
Puccinia angustata *Peck*
" asteria *Duby*
" balsamorhizae *Peck*
" bardanae *Corda*
" bullata (*Pers.*) *Wint.*
" canaliculata (*Schw.*)*Lagenh*
" circaeae *Pers.*
" cirsii *Lasch.*
" convolvuli (*Pers.*) *Cast.*
" cryptotaeniae *Peck*
" curtipes *Howe*
" eatoniae *Arthur*
" eleocharidis *Arthur*
" eriophori *Thüm.*
" extensicola *Plowr.*
" dayi *Clinton*
" dulichii *Sydow*
" eleocharidis *Arthur*
" emaculata *Schw.*
" gigantispora *Bubak.*
" grosulariae (*Pers.*) *Lagenh.*
" heucherae (*Schw.*) *Diet.*
" impatientis (*Schw.*) *Arthur*
" iridis (*DC.*) *Wallr.*
" malvacearum *Mont.*
" melanconoides *Ell. & Hark.*
" menthae *Pers.*
" mesomegala *B. & C.*
" obscura *Schroet.*
" osmorrhizae (*Pk.*) *C. & P.*
" physalidis *Peck*
" pimpinellae *Mart.*
" podophylli *Schw.*
" polygalae *Paschke*
" polygoni-amphibi *Pers.*
" proserpinaceae *Farlow*
" puculiformis (*Jacq.*) *Wettst.*
" pustulata *Arthur*
" saniculae *Grev.*
Puccinia silphii *Schw.*
" simillima *Arthur*
" suaveolens (*Pers.*) *Rostr.*
" taraxaci *Plowr.*
" tenue (*Schw.*) *Burrill*
" triticina *Erikss.*
" violae (*Schw.*) *DC.*
" xanthi *Schw.*
Pucciniastrum agrimoniae (*Schw.*) *Tranz.*
" articum (*Lagh.*) Tranz. *var.* americana *Farl.*
Pseudopeziza medicaginis (*Lib.*) *Sacc*
Pseudovalsa lanciformis (*Fr.*) *Ces. & DeNot.*
Pycnoporus cinnabarinus (*Jacq.*) *Karst.*

Ramularia arvensis *Sacc.*
" barbarae *Peck*
" hammamelidis *Peck*
" nemopanthis *C. & P.*
" obovata *Fckl.*
" occidentalis *E. & K.*
" plantaginis *E. & M.*
" prini *Peck*
" spiraeae *Peck*
" stoloniferae *E. & E.*
Rhinotrichum curtisü *Berk.*
Rhizina inflata (*Schaeff.*) *Quel.*
Rhytisma ilicis-canadensis *Schw.*
" andromedae (*Pers.*) *Fr.*
" punctata (*Pers.*) *Fr.*
Rostkovites granulatus (*L.*) *P. Karst.*
" subaureus (*Pk.*) *Murrill*
Russula compacta *Frost & Peck*
" depallens (*Pers.*) *Fr.*
" foetens (*Pers.*) *Fr.*
" lutea (*Huds.*) *Fr.*

Schizonella melanogramma (*DC.*) *Schroet.*
Sclerotium bifrons *E. & E.*
Scolecotrichum maculicolum *E. & K.*
Scleroderma verrucosa (*Bull.*) *Pers.*
" vulgare *Hornem.*

Septogloeum ampelopsidis *E. & E.*
" nuttalii *Harkness*
" ochroleucum (*B. & C.*) *Dearness*
Septoria anemones *Desm.*
" alnifolia *E. & E.*
" apii (*B. & C.*) *Chester*
" atropurpurea *Peck*
" bruneola (*Fr.*) *Niessl.*
" cerastii *Rob. & Desm.*
" consimilis *E. & M.*
" conspicua *E. & M.*
" cornicola *Desm.*
" dentaria *Peck*
" erigerontis *Peck*
" gei *R. & D.*
" lactucae *Pass.*
" lactucicola *E. & M.*
" ludwigiae *Cooke*
" menyanthis *Desm.*
" musiva *Peck*
" nabali *B. & C.*
" osmorrhizae *Peck*
" polygonorum *Desm.*
" speculariae *B. & C.*
" rubi *West.*
" rubi *West. var.* pallida *Ell. & Holw.*
" rumicis *Ellis*
" sambucina *Peck*
" salicis *West.*
" vebeneae *Rob. & Desm.*
" solidaginicola *Peck*
" violae *West.*
" viridi-tingens *Curt.*
" wilsoni *Clinton*
Spathularia velutipes *C. & F.*
Sphaeropsis biformis *Peck*
" menispermi *Peck*
" sepulta *E. & E.*
" sumachi (*Schw.*) *C. & E.*
Sphaerotheca humuli (*DC.*) *Burr.*
Spongospora subterranea (*Wallr.*) *Johnson*
Stereum rameale *Schw.*
Stigmatea robertiana *Fr.*
Synchytrium decipiens *Farlow*
" aureum *Schroet.*

Taphrina caerulescens (*Desm. & Mont.*) *Tul.*
" potentilliae (*Farlow*) *Johans.*
Thelephora caryophyllea *Schaeff.*
" cuticularis *Berk.*
" intybacea *Pers.*
" spiculosa *Fr.*
" terrestris *Ehrh.*
" vialis *Schw.*
Trametes abietis *Karsten*
" piceina *Peck*
Tyromyces guttulatus (*Peck*) *Murrill*

Uredinopsis atkinsonii *Magn.*
" mirabilis (*Pk.*) *Magn.*
" osmundae *Magn.*
" struthiopteris *Magn.*
Urocystis anemones (*Pers.*) *Wint.*
" waldsteiniae *Peck*
Urophylictis pulposa (*Wallr.*) *Schroet.*
Ustilago heufleri *Fckl.*
" longissima (*Sow.*) *Tul.*
" lorentziana *Thüm.*
" perennans *Rostr.*
" rabenhorstiana *Keuhn.*
" residua *Clinton*
" utriculosa (*Nees*) *Tul.*
" violacea (*Pers.*) *Ung.*
" zeae (*Beckm.*) *Fckl.*
Uromyces rudbeckiae *A. & H.*
" trifolii-repentis (*Cast.*)

Valsa ambiens (*Pers.*) *Fr.*
" leucostoma (*Pers.*) *Fr.*
" nivea (*Hoffm.*) *Fr.*
" opulifoliae *Peck*
" subclypeata *C. & P.*
Valsaria exasperans *Ger. var.* aceris *Rhem.*
Venenarius frostianus (*Peck*) *Murrill*
" phalloides (*Fr.*) *Murrill*
Venturia cassandae *Peck*
Vermicularia compacta *C. & E.*
" coptina *Peck*
" liliacearum *West.*

Xylaria polymorpha *Fr.*

(Ferns and flowering plants)

Agalinis maritima *Raf.*
" purpurea (*L.*) *Britton*
" tenuifolia (*Vahl*) *Raf.*
Agrimonia striata *Michx.*
Agrostis alba *Linn.*
Aletris farinosa *Linn.*
Alsine graminea (*L.*) *Britton*
Althaea officinalis *Linn.*
Ammophila arenaria (*L.*) *Link*
Anchistea virginica (*L.*) *Presl.*
Andropogon furcatus *Muhl.*
Anemone cylindrica *A. Gray*
Anemone quinquifolia *Linn.*
Antennaria canadensis *Greene*
" ambigens (*Greene*) *Fernald*
" fallax *Greene*
" grandis (*Fernald*) *House*
" neodioica *Greene*
" neglecta *Greene*
" occidentalis *Greene*
" parlinii *Fernald*
" petaloidea *Fernald*
" plantaginifolia (*L.*) *Richards*
Apocynum androsaemifolium *Linn.*
Aralia nudicaulis *Linn.*
Arenaria serpyllifolia *Linn.*
Aristida dichotoma *Michx.*
" tuberculosa *Nutt.*
Aronia atropurpurea *Britton*
Asplenium ruta-muraria *Linn.*
Aster acuminatus *Michx.*
" cordifolius *L.*
" concinnus *Willd.*
" divaricatus *L.*
" dumosus *L.*
" ericoides *Linn.*
" lateriflorus (*L.*) *Britton*
" puniceus *Linn.*
" salicifolius *Lam.*
" spectabilis *Ait.*
" subulatus *Michx.*
Atriplex hastatus *Linn.*
Azolla caroliniana *Willd.*

Baccharis halimifolia *Linn.*
Barbara barbara (*L.*) *Macm.*
" stricta *Andrz.*
Bartonia virginica (*L.*) *B. S. P.*
Berberis vulgaris *Linn.*
Boehmeria cylindrica (*L.*) *Sw.*
Brachyelytrum erectum (*Schreb.*) *Beauv.*

Cakile edentula (*Bigel.*) *Hook.*
Caltha palustris *Linn.*
Capnoides sempervirens (*L.*) *Pers.*
Cardamine pennsylvanica *Muhl.*
" pratensis *Linn.*
Carex albicans *Willd.*
" annectans *Bicknell*
" arctata *Boott*
" communis *Bailey*
" comosa *Boott*
" crinita *Lam.*
" deweyana *Schw.*
" diandra *Schr.*
" gracillima *Schw.*
" interior *Bailey*
" intumescens *Rudge*
" lacustris *Willd.*
" leptalea *Wahl.*
" normalis *Mackenzie*
" oblita *Steud.*
" oederi *Ehrh.*
" pauciflora *Lightf.*
" rosaeoides *E. C. Howe*
" scoparia *Schr.*
" stipata *Muhl.*
" trichocarpa *Muhl.*
" umbellata *Schk.*
" vestita *Willd.*
" vulpinoidea *Michx.*
Carum carui *Linn.*
Cassia marylandica *Linn.*
Cathartolinum medium (*Planch*) *Small*
Centaurea nigra *Linn.*
Chamaenerion angustifolium (*L.*) *Scop.*
Chamaesyce polygonifolia (*L.*) *Small*
" preslii (*Guss.*) *Arthur*
Cheirinia cheiranthoides (*L.*) *Link*
Chenopodium ambrosioides *Linn.*
" glaucum *Linn.*
" hybridum *Linn.*
Chrysopsis mariana (*Pursh*) *Nutt.*
Chimaphila umbellata (*L.*) *Nutt.*

Collinsonia canadensis *Linn.*
Convolvulus arvensis *Linn.*
Coptis trifolia (*L.*) *Salisb.*
Cornus amonum *Mill.*
" canadensis (*L.*)
Crocanthemum canadense (*L.*) *Britton*
" majus (*L.*) *Britton*
Cuscuta gronovii *Willd.*
Cynoglossum officinale *Linn.*
Cyperus filicinus *Vahl*
" speciosus *Vahl*
" strigosus *Linn.*
Cypripedium spectabile *Salisb.*

Danthonia compressa *Austin*
" spicata (*L.*) *Beauv.*
Dasiphora fruticosa (*L.*) *Rydb.*
Dasystoma flava (*L.*) *Wood.*
" pedicularia (*L.*) *Benth.*
" virginica (*L.*) *Britton*
Decodon verticillata *Linn.*
Dentaria diphylla *Michx.*
Deringia canadensis (*L.*) *Kuntze*
Diodia teres *Walt.*
Distichlis spicata (*L.*) *Greene*
Doellingeria umbellata (*Mill.*) *Nees*
Drosera intermedia *Hayne*
Dryopteris cristata (*L.*) *A. Gray*
" dilatata (*Hoffm.*) *A. Gray*
" dryopteris (*L.*) *Britton*
" intermedia (*Muhl.*) *A. Gray*
" spinulosa (*Muell.*) *Kuntze*
Dulichium arundinaceum (*L.*) *Britton*

Echinochloa walteri (*Pursh.*) *Nash*
Eleocharis palustris (*L.*) *R. & S.*
Eleusine indica (*L.*) *Gaertn.*
Elymus canadensis *Linn.*
Epigaea repens *Linn.*
Epilobium coloratum *Muhl.*
" hirsutum *Linn.*
" lineare *Muhl.*
Equisetum littorale *Kuehl.*
Eriophorum tenellum *Nutt.*
" viridi-carinatum (*Engelm.*) *Fernald*
Eupatorium verbenaefolium *Linn.*
Euthamia graminifolia (*L.*) *Nutt.*

Festuca elatior *Linn.*
Fimbristylis autumnalis (*L.*) *R. & S.*
Fragaria americana (*Porter*) *Britton*

Galeopsis tetrahit *Linn.*
Galium claytoni *Michx.*
" palustre *Linn.*
Geum strictum *Ait.*
Gnaphalium uliginosum *Linn.*
Gratiola aurea *Muhl.*

Helianthus angustifolius *Linn.*
" divaricatus *Linn.*
" strumosus *Linn.*
Hibiscus moscheutos *Linn.*
Hieracium canadense *Michx.*
" paniculatum *Linn.*
" venosum *Linn.*
Hipposelinum levistacum (*L.*) *Britt. & Rose*
Hordeum jubatum *Linn.*

Ibidium cernuum (*L.*) *House*
Ilex laevigata (*Pursh*) *A. Gray*
" montana (*T. & G.*) *A. Gray*
Impatiens biflora *Walt.*
Iva frutescens *Linn.*

Jeffersonia diphylla (*L.*) *Pers.*
Juniperus depressa *Pursh*

Kneiffia pumila (*L.*) *Spach.*
Koellia incana (*L.*) *Kuntze*

Lactuca spicata (*Lam.*) *Hitchc.*
Lappula virginiana (*L.*) *Greene*
Lathyrus maritimus (*L.*) *Bigel.*
" myrtifolius *Muhl.*
Lechea minor *Linn.*
Leptandra virginica (*L.*) *Nutt.*
Lespedeza capitata *Michx.*
" frutescens (*L.*) *Britt.*
" hirta (*L.*) *Hornem.*
" stuvei *Nutt.*
" virginica (*L.*) *Britton*
Lilium canadense *Linn.*
Limonium carolinianum (*Walt.*) *Britton*
Liparis loeselii (*L.*) *Richards.*
Lobelia kalmii *Linn.*

Lonicera hirsuta *Eaton*
" sempervirens *Linn.*
Lychnis flos-cuculi *Linn.*
Lycopus rubellus *Moench.*
Lygodium palmatum (*Bernh.*) *Sw.*
Lysimachia nummularia *Linn.*

Mariscus mariscoides (*Muhl.*) *Kuntze*
Meibonia bracteata (*Mx.*) *Kuntze*
" canadensis (*L.*) *Kuntze*
" dillenii (*Darl.*) *Kuntze*
" grandiflora (*Walt.*) *Kuntze*
" michauxii *Vail*
" obtusa (*Muhl.*) *Vail*
" paniculata (*L.*) *Kuntze*
" rigida (*Ell.*) *Kuntze*
Mentha canadensis *Linn.*
Mikania scandens (*L.*) *Willd.*
Mimulus ringens *Linn.*
Mitella diphylla *Linn.*
" nuda *Linn.*
Monarda clinopodia *Linn.*
Moneses uniflora (*L.*) *A. Gray*
Muhlenbergia racemosa (*Mx.*) *B. S. P.*

Nabulus trifoliatus *Cass*
Naias marina *Linn.*
Naumbergia thrysiflora (*L.*) *Duby.*
Norta altissima (*L.*) *Britton*

Ophioglossum vulgatum *Linn.*

Panicularia canadensis (*Mx.*) *Kuntze*
" obtusa (*Muhl.*) *Kuntze*
" torreyana (*Spreng.*) *Merrill*
Panicum addisonii *Nash*
" boreale *Nash*
" capillare *Linn.*
" clandestinum *Linn.*
" columbianum *Scribn.*
" dichotomum *Linn.*
" dichotomiflorum *Michx.*
" huachucae *Ashe*
" implicatum *Scribn.*
" latifolium *Linn.*
" linearifolium *Scribn.*
" philadelphicum *Bernh.*
Panicum sphaerocarpon *Ell.*
" spretum *Schult.*
" tsugatorum *Nash*
" verrucosum *Muhl.*
" villosissimum *Nash*
" xanthophysum *A. Gray*
Parnassia caroliniana *Walt.*
Pedicularis canadensis *Linn.*
Pentstemon pentstemon (*L.*) *Britt.*
Persicaria lapathifolia (*L.*) *S. F. Gray*
" muhlenbergii (*S. Wats.*) *Small*
" pennsylvanica (*L.*) *Small*
Phalaris arundinacea *Linn.*
Philotria canadensis (*Michx.*) *Britton*
Phragmites phragmites (*L.*) *Karst*
Pilea pumila (*L.*) *A. Gray*
Plantago rugelii *Decne.*
Pluchea camphorata (*L.*) *DC.*
Poa alsodes *A. Gray*
" nemoralis *Linn.*
" triflora *Gilib.*
Polemonium van-bruntiae *Britton*
Polygala nuttallii *T. & G.*
" pauciflora *Willd.*
" verticillata *Linn.*
" viridescens *Linn.*
Polygonum sagittatum *Linn.*
" tenue *Michx.*
Potamogeton amplifolius *Tuckerm.*
Potentilla simplex *Michx.*
Poterium sanguisorba *Linn.*
Ptilimnium capillaceum (*Mx.*) *Raf.*
Pyrola americana *Sweet*
" elliptica *Linn.*
" secunda *Linn.*
" uliginosa *Torrey*

Radicula palustris (*L.*) *Moench.*
Robinia viscosa *Vent.*
Rosa canina *Linn.*
" carolina *Linn.*
Rubus procumbens *Muhl.*
Rudbeckia triloba *Linn.*
Rynchospora fusca (*L.*) *Ait.*

Sabbatia stellaris *Pursh*
Salicornia europea *Linn.*
Sanguisorba canadensis *Linn.*
Sanicula canadensis *Linn.*
" gregaria *Bicknell*
" marylandica *Linn.*
Schizachyrium scoparium (*Mx.*) *Nash*
Scirpus americanus *Pers.*
" robustus *Pursh*
Scrophularia leporella *Bicknell*
Scutellaria lateriflora *Linn.*
Selaginella rupestris (*L.*) *Spring.*
Sericocarpus asteroides (*L.*) *B. S. P.*
Sibbaldiopsis tridentata (*Soland*) *Rydb.*
Silene latifolia (*Mill.*) *B. & R.*
Solidago flexicaulis *Linn.*
" hispida *Muhl.*
" juncea *Ait.*
" puberula *Nutt.*
" rugosa *Mill.*
" sempervirens *Linn.*
Sparganium acaule (*Beeby*) *Rydb.*
" androcladium (*Engelm.*) *Morong.*
Spartina cynosuroides (*L.*) *Roth*
" michauxiana *Hitchc.*
" patens (*Ait.*) *Muhl.*
Spergula arvensis *Linn.*
Spiraea latifolia (*Ait.*) *Borkh.*
Streptopus roseus *Michx.*
Strophostyles helvola (*L.*) *Britt.*
Syntherisma sanguinale (*L.*) *Dulac.*

Taenidia integerrima (*L.*) *Drude*
Teucrium littorale *Bicknell*
" occidentale *A. Gray*
Tiarella cordifolia *Linn.*
Triosteum aurantiacum *Bicknell*
Tovara virginiana (*L.*) *Raf.*

Utricularia macrorhiza *LeConte*
Uvularia sessilifolia *Linn.*

Vaccinium canadense *Kalm*
Veronica scutellata *Linn.*
Viburnum opulus *Linn.*
Viola canadensis *Linn.*
" conspersa *Reichenb.*
" eriocarpa *Schw.*
" fimbriatula *J. E. Sm.*
" incognita *Brainerd*
" latiuscula *Greene*
" rostrata *Pursh*
" rotundifolia *Michx.*
" selkirkii *Pursh*
" septentrionalis *Greene*
" sororia *Willd.*
" subvestita *Greene*

Xanthium echinatum *Murr.*

Zanthoxylum americanum *Mill.*

CONTRIBUTORS AND THEIR CONTRIBUTIONS

Frank H. Ames, Brooklyn

Amsonia amsonia (*L.*) *Britton*

Prof. J. C. Arthur, Lafayette, Ind.

Caeoma strobilinum *Arthur*

M. S. Baxter, Rochester

Antennaria ambigens (*Greene*) *Fernald*
" canadensis *Greene*
" fallax *Greene*
" grandis (*Fernald*) *House*
" neglecta *Greene*
" neodioica *Greene*
" occidentalis *Greene*
" petaloidea *Fernald*
" parlinii *Fernald*
" plantaginifolia (*L.*) *Richard*
Aristida oligantha *Michx.*
Chaenorrhinum minus (*L.*) *Lange*
Chamaesyce glyptosperma (*Engelm.*) *Small*
Galeopsis ladanum *var.* latifolia *Wallr.*
Naias marina *Linn.*
Pyrola uliginosa *Torrey*
Selaginella rupestris (*L.*) *Spring.*
Sericocarpus asteroides (*L.*) *B. S. P.*

H. R. Bristol, Plattsburg

Peridermium comptoniae (*Britton*) *Orton & Adams*

S. H. Burnham, Hudson Falls

Aleurodiscus farlowi *Burt*
Stereum leveillianum *B. & C.*

Miss M. C. Burns, Middleville

Geaster triplex *Junghuhn*
Lychnis flos-cuculi *Linn.*

E. A. Burt, St Louis, Mo.

Craterellus ochrosporus *Burt*
" odoratus (*Schw.*) *Fr.*
Thelephora caryophyllea *Schaeff.*
" cuticularis *Berk.*
" intybacea *Pers.*
Thelephora spiculosa *Fr.*
" scissilis *Burt*
" terrestris *Ehrh.*
" vialis *Schw.*

Mrs E. P. Gardner, Canandaigua

Crepis biennis *Linn.*
Jeffersonia diphylla (*L.*) *Pers.*

J. J. Davis, Madison, Wis.

Aecidium ceanothi *Ell. & Kell.*
" euphorbiae *Gmel.*
" falcatae *Arthur*
" hydnoideum *B. & C.*
" laricis *Kleb.*
" liatridis *Ell. & And.*
Aecidium lupini *Peck*
" nesaeae *Gerard*
" proserpinaceae *B. & C.*
" pustulatum *Curt.*
" rhamni *Gmel.*

Albugo candida (*Pers.*) *Kuntze*
" tragopogonis (*DC.*) *S. F. Gray*
Ascochyta lophanthi *Davis*
Asterina rubicola *E. & E.*

Burrillia pustulata *Setch.*

Cercospora althaeina *Sacc. var.* praecincta *Davis*
" apocyni *E. & K.*
" boehmeriae *Peck*
" callae *Peck*
" caricina *Ell. & Dearn.*
" ceanothi *Kell. & Sw.*
" cercidicola *Ellis*
" comandrae *Ell. & Dearn.*
" condensata *Ell. & Kell.*
" dioscoreae *E. & M.*
" echinocystis *E. & M.*
" effusa (*B. & C.*) *E. & E.*
" fingens *Davis*
" gayophyti *E. & E.*
" geranii *Kell. & Sw.*
" gerardiae *Ell. & Dearn.*
" granuliformis *Ell. & Holw.*
" gymnocladi *Ell. & Keli.*
" negundinis *E. & E.*
" megalopotanica *Speg.*
" omphacodes *Ell. & Holw.*
" passaloroides *Wint.*
" perfoliata *E. & E.*
" physalidis *Ellis*
" pyri *Farlow*
" racemosa *Ell. & Mart.*
" rhamni *Fckl.*
" rhoina *C. & E.*
" ribicola *E. & E.*
" sagittariae *Ell. & Kell.*
" sequoiae *var.* juniperi *E. & E.*
" sii *E. & E.*
" stomatica *Ell. & Davis*
" zebrina *Pass.*
Cercosporella apocyni *Ell. & Kell.*
Cintractia subinclusa (*Koern.*) *Magn.*
Coleosporium sonchi-arvensis (*Pers.*) *Lev.*
" viburni *Arthur*

Coletotrichum graminicolum (*Ces.*) *Wilson*
Cronartium comandrae *Peck*
" comptoniae *Arthur*
" quercus (*Brondewu*) *Schroet.*
Cylindrosporium apocyni *E. & E.*
" betulae *Davis*
" clematidis *E. & E.*
" eryngii *E. & K.*
" glyceriae *E. & E.*
" negundinis *E. & E.*
" ribis *Davis*
" shepherdiae *Sacc.*
" vermiforme *Davis*

Doassansia ranunculina *Davis*
" sagittariae (*West.*) *Fisch.*

Entyloma compositarum *Farlow*
" floerkeae *Holway*
" lineatum (*Cooke*) *Davis*
" menispermi *Farlow & Trelease*
" microsporum (*Ung.*) *Schroet.*
" nymphaeae (*Cunn.*) *Setch.*
" ranunculi (*Bon.*) *Schroet.*
" thalictri *Schroet.*
Erysiphe cichoracearum *DC.*
Exoascus betulinus (*Rostr.*) *Sadeb.*
" communis *Sadeb.*
" insitiae *Sadeb.*

Fabraea rousseauana *Sacc. & Bomm.*
Fusarium heterosporum *Nees*
Fusicladium radiosum *var.* microscopicum (*Sacc.*) *Allesch.*

Gloeosporium aridum *Ell. & Holw.*
" betularum *Ell. & Mart.*
" caryae *Ell. & Dearn.*
" confluens *Ell. & Dearn.*
" cylindrospermum (*Bon.*) *Sacc.*
" robergii *Desm.*
" saccharinum *E. & E.*
" septorioides *Sacc.*
" thalictri *Davis*
" trifolii *Peck*

Gymnosporangium clavariaeforme (*Jacq.*) *DC.*
" clavipes *C. & P.*
" davisii *Kern*
" globosum *Farlow*
" juvenescens *Kern*

Keithia thujina *Durand*
" tsugae *Farlow*
Kuehneola uredinis (*Lk.*) *Arthur*

Leptothyrium periclymeni *Desm. var.* americanum *E. & E.*

Marsonia coronariae *Sacc. & Dearn.*
" fraxini *Ell. & Davis*
" marini (*S. & E.*) *Magn.*
" neilliae (*Harkness*) *Magn.*
" potentillae (*Desm.*) *Magn.*
" violae (*Pass.*) *Magn.*
Melampsora medusae *Thüm.*
Melampsoropsis ledi (*Lk.*) *Arthur*
" ledicola (*Peck*) *Arthur*
Microsphaera alni (*Wallr.*) *Wint.*

Ovularia asperifolii *Sacc. var.* lappulae *Davis*
" destructiva (*Phil. & Plowr.*) *Massee*

Peridermium balsamium *Peck*
Peronospora grisea *Ung.*
" hydrophylli *Waite*
" leptosperma *DeBary*
" lophanthi *Farlow*
" polygoni *Thüm.*
" rubi *Rabenh.*
" trifoliorum *DeBary*
" viciae (*Berk.*) *DeBary, var.* americana *Davis*
Phleospora celtidis *Ell. & Mart.*
" ulmi (*Fr.*) *Wallr.*
Phragmidium occidentale *Arthur*
Phyllachora wittrockii (*Erikss.*) *Sacc.*
Phyllosticta destruens *Desm.*
" innumerabilis *Peck.*
" simillispora *Ell. & Davis*
Physalospora ambrosiae *E. & E.*
Phytophthora thalictri *Wils. & Davis*
Piricularia parasitica *E. & E.*
Plasmopara australis (*Spreg.*) *Swingle*
" halstedii (*Farl.*) *Berl. & DeToni*
" humuli *Miyabe & Takahashi*
" ribicola *Schroet.*
" viburni *Peck*
Protomyces andinus *Speg.*
Puccinia andropogonis *Schw.*
" balsamorhizae *Peck*
" bullata (*Pers.*) *Wint.*
" cirsii *Lasch*
" convolvuli (*Pers.*) *Cast.*
" coronata *Cda.*
" curtipes *Howe*
" cyperi *Arthur*
" dayi *Clinton*
" dulichii *Sydow*
" eatoniae *Arthur*
" eleocharidis *Arthur*
" emaculata *Schw.*
" giganthispora *Bubak*
" heucherae (*Schw.*) *Dietel*
" impatientis *Arthur*
" mesomegala *B. & C.*
" milii *Erikss.*
" ornata *Arthur & Holw.*
" panici *Dietel*
" perminuta *Arthur*
" physalidis *Peck*
" poculiformis (Jacq.) Wettstat.
" polygalae *Paschke*
" proserpinaceae *Farlow*
" pustulata *Arthur*
" pygmaea *Erikss.*
" rubifaciens *Johans.*
" sessilis *Schw.*
" seymouriana *Arthur*
" silphii *Schw.*
" simillima *Arthur*
" tomipara *Trelease*
Pucciniastrum agrimoniae (*Schw.*) *Tranz.*
" articum (*Lagh.*) *Tranz. var* americanum *Farl.*

Ramularia brunellae *E. & E.*
" lysimachiae *Thüm.*
" nemopanthis *C. & P.*
" occidentalis *E. & K.*
" plantaginis *E. & M.*
" prini *Peck*
" punctiformis (*Schl.*) *var. Hoehn.*
" reticulata *E. & E.*
" rosea (*Fckl.*) *Sacc.*
" smilacinae *Davis*
" spiraeae *Peck*
" stolonifera *E. & E.*
" uredinis (*Voss*) *Sacc.*
" virgaureae *Thüm.*
Rhytisma andromedae (*Pers.*) *Fr.*

Sclerotium bifrons *E. & E.*
" globuliferum *Davis*
Septogloeum ampelopsidis *E. & E.*
" nuttalii *Harkness*
Septoria acerella *Sacc.*
" alnifolia *E. & E.*
" asclepiadicola *E. & E.*
" astericola *E. & E.*
" atropurpurea *Peck*
" brevispora *E. & Davis*
" cephalanthi *E. & K.*
" cerastii *Rob. & Desm.*
" cornicola *Desm.*
" davisii *Sacc.*
" dimera *Sacc.*
" helenii *E. & E.*
" lophanthi *Wint.*
" ludwigiae *Cooke*
" lythrina *Peck*
" menyanthis *Desm.*
" musiva *Peck*
" nubilosa *E. & E.*
" pachyspora *Ell. & Holw.*
" physostegiae *E. & E.*
" prenanthis *E. & E.*
Septoria
" polymniae *E. & E.*
" rumicis *Ellis*
" salicifoliae (*Trel.*) *Berl. & DeToni*
" sambucina *Peck*
" silphii *E. & E.*
" salicis *West.*
" solidaginicola *Peck*
" speculariae *B. & C.*
" xanthiifolia *Ell. & Kell.*
Sphaerotheca humuli (*DC.*) *Burr.*
Synchytrium aureum *Schroet.*
" scirpi *Davis*

Taphrina potentillae (*Farlow*) *Johans.*
" coryli *Nishida*

Uredinopsis atkinsonii *Magn.*
" mirabilis (*Peck*) *Magn.*
" osmundae *Magn.*
" struthiopteris *Stormer*
Urocystis agropyri (*Preuss.*) *Schroet.*
" waldsteiniae *Peck*
Uromyces acuminatus *Arthur*
" hyperici-frondosi (*Schw.*) *Arthur*
" poinsettiae *Trans.*
" pyriformis *Cooke*
" rudbeckiae *A. & H.*
" spermacoces (*Schw.*) *Thüm.*
" trifolii-repentis (*Cast.*) *Liro.*
Urophlyctis pluriannulatum (*B. & C.*) *Farlow*
Ustilago longissima (*Sow.*) *Tul.*
" " var. macrospora *Davis*
" perennans *Rostr.*
" violacea (*Pers.*) *Fckl.*

Prof. John Dearness, London, Ont.

Ascochyta colorata *Peck*
" pisi *Lib. var.* lupini *Sacc.*

Basidiophora entospora *Roze & Cornn.*

Cercospora diffusa *E. & E.*
" zebrina *Pass.*
Cladosporium ramuosum *Desm.*
Corticum vagum *B. & C.*

Darluca bubakiana *Kabat.*

Diplodia linderae *E. & E.*
Discosia maculicola *Gerard*
Doassansia affinis *Ell. & Dearn.*
" alismatis (*Nees*) *Cornu.*
" deformans *Setch.*
" martianoffiana (*Thüm.*) *Setch.*

Entomosporium thümeni (*Cke.*) *Sacc.*
Entyloma compositarum *Farlow*
" nymphaeae (*Cornu.*) *Setch.*
" physalidis (*Kl. & Cke.*) *Wint.*

Gloeosporium canadense *E. & E.*
" caryae *Ell. & Dearn.*
" catalpae *E. & E.*
" robergei *Desm.*
" salicis *West.*
" trifolii *Peck*

Macrosporium solani *E. & M.*

Peronospora effusa (*Grev.*) *Rabenh.*
" calotheca *DeBary*
" corydalis *DeBary*
" arthuri *Farlow*
" lophanthi *Farlow*
" trifoliorum *DeBary*
Plasmopara geranii *Peck*
" halstedii (*Farl.*) *Berl. & DeToni*
Phyllosticta cruenta (*Fr.*) *Kickx.*
" lentaginis *Sacc. & Syd.*
Phyllosticta punctata *Ell. & Dearn.*
Phycotheca viticola (*B. & C.*) *Wils.*
Puccinia poarum *Niels.*

Ramularia hamamelidis *Peck*
Rhytisma ilicis-canadensis *Schw.*

Schizonella melanogramma (*DC.*) *Schroet.*
Septogloeum ampelopsidis *E. & E.*
Septoria anemones *Desm.*
" apii *Chester*
" brunneola (*Fr.*) *Niessl.*
" cornicola *Desm.*
" atropurpurea *Peck*
" consimilis *E. & M.*
" dolichospora *E. & E.*
" menyanthis *Desm.*
" polaris *Karst*
" rubi *var.* pallida *Ell. & Holw.*
" rudbeckiae *Ell. & Holw.*
" sambucina *Peck*
" stachydis *R. & D.*
Synchitrium decipiens *Farlow*

Urophylictis pulposa (*Wallr.*) *Schroet.*
Urocystis anemones (*Pers.*) *Wint.*
Ustilago longissima (*Sow.*) *Tul.*
" perennans *Rostr.*
" zeae (*Beckm.*) *Ung.*

Valsaria exasperans *Ger. var.* aceris *Rehm.*

Mrs John Dennis, Rochester

Monarda clinopodia *Linn.*

Dr W. A. Murrill, New York

Boletinus pictus *Peck*

Ceriomyces subglabripes (*Peck*) *Murrill*
Chanterel infundibuliformis (*Scop.*) *Fr.*
" umbonatus *Fr.*
Collybia dryophila *Bull.*
" maculata *A. & S.*
Collybia strictipes *Peck*
Cortinarius armillatus *Fr.*
Clitocybe clavipes (*Pers.*) *Fr.*
" sinopica *Fr.*
Clavaria pistularis *Linn.*
" pinophila *Peck*
Craterellus cornucopioides *Pers.*
Cudonia lutea (*Peck*) *Sacc.*

Fomitiporia prunicola *Murrill*

Agaricus diminutivus *Peck*

Hydnum caput-ursi (*L.*) *Fr.*

Lactaria gerardii *Peck*
" mucida *Burlingham*
" subdulcis (*Pers.*) *Fr.*
" turpis (*Wenm.*) *Fr.*
" torminosa (*Schaeff.*) *Pers.*
" ligniota *Fr.*

Lepiota amianthina (*Scop.*) *Quel.*
" clypeolaria (*Bull.*) *Quel.*

Leotia lubrica (*Scop.*) *Pers.*

Lachnea hemisphaerica (*Wiggs.*)

Marasmius confluens (*Pers.*) *Ricken.*

Melanoleuca albissima (*Peck*) *Murrill*

Omphalia chrysophylla *Fr.*

Pholiota squarrosa *Muell.*
" caperata (*Pers.*) *Fr.*

Rostkovites granulatus (*L.*) *P. Karst.*

Russula depallens (*Pers.*) *Fr.*
" compacta *Frost & Peck*
" foetens (*Pers.*) *Fr.*
" lutea (*Huds.*) *Fr.*

Spathularia velutipes *C. & F.*

Tyromyces guttulatus (*Peck*) *Murrill*

Venenarius frostianus (*Peck*) *Murrill*
" phalloides (*Fr.*) *Murrill*

C. G. Lloyd, Cincinnati, Ohio

Trametes abietis *Karst.*

Trametes piceina *Peck*

J. H. Livingston, Tivoli-on-Hudson

Phyllosticta ampelopsidis *E. & M.*

W. A. Matthews, Rochester

Dryopteris clintoniana (*D. C. Eaton*) *Dowell*
" intermedia (*Muhl.*) *A. Gray*

Dryopteris spinulosa (*Muell.*) *Kuntze*

Monarda clinopodia *Linn.*

Prof. L. H. Pennington, Syracuse

Antrodia mollis (*Sommerf.*) *Karst.*

Azolla caroliniana *Willd.*

Bactridium flavum *Kze. & Schum.*

Cercospora betacola *Sacc.*

Clavaria mucida *Pers.*

Clitopilus abortivus *B. & C.*

Cronartium comandrae *Peck*

Daedalia quercina (*L.*) *Pers.*

Chlorosplenium aeruginosum (*Oed.*) *DeNot.*

Daldinia concentrica (*Bolt.*) *Ces. & DeNot.*

Diatrype stigma (*Hoffm.*) *Fr.*

Elaphomyces variegatus *Tul.*

Elfvingia fomentaria (*L.*) *Murrill*

Fomes populinus (*Schum.*) *Cooke*
" roseus (*Alb. & Schw.*) *Cooke*
" scutellatus (*Schw.*) *Cooke*

Fomitiporella betulina *Murrill*

Gloeophyllum hirsutum (*Schaeff.*) *Murrill*
" trabeum (*Pers.*) *Murrill*

Gloeosporium caryae *E. & E.*
" nervicolum *G. Massee*
" nervisequum (*Fckl.*) *Sacc.*

Gnomonia beneta (*Sacc.*) *Kleb.*

Gymnosporangium clavariaeforme (*Jacq.*) *DC.*

Holwaya giganthea (*Peck*) *Dur.*

Hydnum schiedermayeri (*Heufler*)
Hapalopilus gilvus (*Schw.*) *Murrill*
" rutilans (*Pers.*) *Murrill*

Lenzites betulina (*L.*) *Fr.*
Leotia lubrica (*Scop.*) *Pers.*

Marssonia juglandis (*Lib.*) *Sacc.*
Massaria vomitoria *B. & C.*
Melampsorella elatina (*Alb. & Schw.*) *Arth.*
Melanconium oblongum *Berk.*

Peronospora corydalis *DeBary*
Phyllosticta hamamelidis *Peck*
" paviae *Desm.*
Plasmopara viticola (*B. & C.*) *Berl. & DeToni*
" serotinus *Schrad.*
Porodisculus pendulus (*Schw.*) *Murrill*
Pseudopeziza medicaginis (*Lib.*) *Sacc.*
Puccinia malvacearum *Mont.*
" menthae *DC.*
" mesomegala *B. & C.*
" pimpinellae *Mart.*
" podophylli *Schw.*
" suaveolens (*Pers.*) *Rostr.*

Pycnoporus cinnabarinus (*Jacq.*) *Karst.*

Rhytisma punctata (*Pers.*) *Fr.*

Schizonella melanogramma (*DC.*) *Schroet.*
Septoria apii (*B. & C.*) *Chester*
" brunellae *Ell. & Holw.*
" dentariae *Peck*
" polygonarum *Desm.*
" viridi-tingenes *Curt.*
Sphaeropsis sumache (*Schw.*) *C. & E.*
Stigmatea robertiana *Fr.*
Synchytrium decipiens *Farlow*

Taphrina caerulescens (*Desm. & Mont.*) *Tul.*
Trametes piceina *Peck*

Urocystis anemones (*Pers.*) *Wint.*
Uromyces hedysari-paniculati (*Schw.*) *Farlow*
Ustilago heufleri *Fckl.*
" lorentziana *Thüm.*
" rabenhorstiana *Keuhn.*
" residua *Clinton*
" utriculosa (*Nees*) *Tul.*

Xylaria polymorpha *Pers.*

H. C. Sands, Malone

Spongospora subterranea (*Wallr.*) *Johnson*

F. A. Ward, Cortland

Poterium sanguisorba *Linn.*

Miss E. C. Webster, Syracuse

Centaurea nigra *Linn.*
Chenopodium glaucum *Linn.*

NEW OR INTERESTING SPECIES OF FUNGI III

1 Fungi new to the State flora

Aleurodiscus farlowi Burt

On dead branches and twigs of hemlock, Tsuga canadensis, Vaughns, Washington county. S. H. Burnham, February 20, 1914. (Determined by E. A. Burt.)

Botryosphaeria fuliginosa M. & M.

On dead twigs of Fraxinus americana L., Sylvan Beach, Oneida county. H. D. House, May 14, 1915.

Calosphaeria cornicola E. & E.

On dead branches of Cornus paniculata near Bethlehem, N. Y. April. Dr Charles H. Peck.

Cercospora caricis Dearness & House, n. sp.

Spots yellow, not definitely bordered, similar on both sides of the leaf, generally following but not bounded by the veinlets; hyphal tufts brown, hyphae 15–20 by 4–6 μ, amphigenous but mostly epiphyllous; conidia hyaline, slightly obclavate, occasionally concatenate, flexuous, continuous to 4-septate, 40–80 by 3 μ.

Old Forge, N. Y., on leaves of Carex folliculata. Dr C. H. Peck, August.

This species differs very markedly from Cercospora caricina Ell. & Dearness, which has minute hypophyllous tufts, and from Cercospora microstigma Sacc., which possesses smoky, margined spots.

Coniothyrium concentricum Desm.

On languishing leaves of Yucca filamentosa L. (cultv.) Oneida, Madison county. H. D. House, June 20, 1915.

Coryneum umbonatum Nees

On dead twigs of Carpinus caroliniana Walt. Sylvan Beach. H. D. House, May 10, 1915.

Cucurbitaria ceanothi Dearness & House, sp. nov.

Perithecia rough, small, subcaespitose on a black cortical stroma which finally throws off the cuticle; asci paraphysate, 150–175 by

10–15 μ; sporidia evenly to obliquely uniseriate, 3–7 but mostly 5–6 septate, 20–26 by 11–12 μ, somewhat constricted at the middle septum.

On dead stems of Ceanothus americanus. Albany. H. D. House, November to April. Type in the herbarium of the New York State Museum.

Cyphella conglobata Burt

(Ann. Mo. Bot. Gard. 1:375. 1914)

Adirondack mountains and North Elba. Collected by Dr C. H. Peck. (Determined by E. A. Burt.)

Dendrophoma albomaculans (Schw.) Starb.

On dead branches of Lilac (Syringa vulgaris L.), Rensselaer. H. D. House, June 9, 1915.

Diaporthe ailanthi Sacc. var. **viburni** Dearness & House, var. nov.

On dead twigs of Viburnum dentatum L. Sylvan Beach, Oneida county, N. Y. H. D. House, May 13, 1915.

The largest perithecia are about 360 μ in diameter, the asci are 45–60 x 6–9 μ and the 4-nucleate sporidia are 11–15 x 3–3½ μ. The only difference between this and the typical form of the species occurring on Ailanthus is that here the sporidia are not constricted, while in D. Ailanthi they are said to be slightly constricted.

Diaporthe comptoniae (Schw.) E. & E.

On dead twigs of Comptonia peregrina (L.) Coulter. Near Albany, N. Y. H. D. House, July 19, 1915.

Diaporthe minuta Dearness & House, sp. nov.

Perithecia minute, .3 mm; thickly scattered, the black entire ostiola scarcely visible above the ruptured cuticle, flesh white; asci fusoid, short-stipitate, 75 by 6–7 μ, profusely paraphysate, paraphyses linear and longer than the asci; sporidia uniseptate, somewhat constricted, hyaline, nucleate, acute at each end, 15 by 3 μ.

On dead stems of Ceanothus americanus Linn. Albany. H. D. House, March, 1915. Type in the herbarium of the New York State Museum.

Cercospora lathyri Dearness & House, sp. nov.

Spots bluish gray, becoming darkened with age, many of them finally arid, bounded by a narrow reddish border limited by the veinlets, 2–4 x 2–3 mm; hyphae very short on numerous evenly scattered brownish bases, amphigenous; conidia mostly epiphyllous,

continuous, or obscurely one to few septate, straight or slightly curved, amphigenous, 40–70 x 2¾–3¼ μ, mostly about 45 μ long.

On living and languishing leaves of the beach pea (Lathyrus maritimus (L.) Bigel.), Wading River (type) and Eastport, N. Y. Charles H. Peck. August and September. (Year not indicated on the collection). Type in the herbarium of the New York State Museum.

Diaporthe tecta (Cooke) Sacc.

(Valsa tecta *Cooke*)

Sand's point, Long Island, on dead twigs of Myrica carolinensis Mill. H. D. House, September 8, 1915. Professor Dearness, who examined these specimens, states that Cooke does not mention that the sporidia are appendiculate; otherwise the description agrees with the specimens.

The species is based upon Ravenel's. N. Am. F. no. 747. J. B. Ellis redescribed the species from a copy of no. 747, and states that the discrepancy (in part) between the two descriptions is remarkable. Cooke & Ellis may have had two different species in hand.

The same collection contains a little Calosphaera myricae C. & E.

Diaporthe tuberculosa (Ell.) Sacc. var. **pruni** Dearness & House, var. nov.

The perithecia, asci and sporidia are quite similar to those of the typical form of this species on Amelanchier, although the perithecia penetrate to or slightly into the wood on this host. The black stromatic boundary also penetrates more deeply and rises distinctly to the surface of the bark, elevating it into a narrow blackened circular ridge with a diameter of from 2 to 5 mm.

On dead twigs of Prunus serotina Ehrh. Oneida, Madison county, N. Y. H. D. House, May 15, 1915.

Didymosphaeria empetri (Fr.) Sacc.

On dead leaves of Empetrum nigrum L. Mount Marcy. H. D. House, July 1913.

Didymosphaeria housei Dearness

(Mycologia 8:100. 1916)

Perithecia scattered, dark, raising the cuticle in small pustules, .3 mm; ostiola very short, almost obsolete; asci paraphysate, cylindrical, short stipitate, 60–72 by 5–6 μ; sporidia smoky brown, 1-septate, slightly constricted, compactly uniseriate, 8–9 by 4–4½ μ.

On dead twigs of Ceanothus americanus Linn. Albany. H. D. House, January to April 1915. Type in the herbarium of the New York State Museum. Resembling Didymosphaeria ceanothi Cooke & Harkness of California, but the spores much smaller.

Microdiplodia ceanothi Dearness & House, sp. nov.

Acervuli scattered, raising the cuticle which is blackened into small pustules, ⅓ to ½ mm broad; spores smoky brown, suboblong, 9–11 by 4–5 μ.

On dead twigs of Ceanothus americanus Linn. Albany. H. D. House, March 1915. Type in the herbarium of the New York State Museum. Probably a stage of Didymosphaeria housei Dearness, which was found upon the same twigs.

Diplodia microspora B. & C.

On Viburnum dentatum Linn. Albany, N. Y. Collected by H. D. House, May 1915.

There is nothing in the meager description of Diplodia microspora to exclude our material except that the conidia of the latter are rather uniformly 9 x 3–3½ μ instead of 6–7 x 3 μ as given in the description by Saccardo. The type of D. microspora was collected by Curtis on Viburnum opulifolium (V. Opulus).

Eichleriella leveilliana (B. & C.) Burt

(Stereum leveillianum *B. & C.*)

On dead branches and twigs of hemlock, Tsuga canadensis (L.) Carr. Vaughns, Washington county. S. H. Burnham, February 20, 1914. (Determined by E. A. Burt.)

Flammula penetrans Fr.

On decayed pine logs, Sylvan Beach, Oneida county. H. D. House, October 12, 1915.

Gloeosporium alnicola Dearness & House, sp. n.

Spots subcircular, reddish brown with a diffused darker border, 1 cm in diameter; acervuli amphigenous, concolorous or usually darker, depressed, 50–150 μ, mostly about 70 μ; conidia continuous, elliptic-oblong, 9–12 by 2.75–3 μ.

On living leaves of Alnus rugosa (DuRoi) K. Koch. Eastport, Long Island. Dr C. H. Peck, August.

Gloeosporium falcatum Dearness & House, sp. nov.

Spots gray with a darker, ridged border and surrounded by an indefinite, reddish, somewhat translucent margin, 3 to .7 mm broad. Acervuli epiphyllous, concolorous, scattered, best observed with reflected light under the microscope, 90–150 μ. Spores falcate, hyaline, acute at one or both ends, grumous and guttulate, 24–32 x 8–12 μ.

On living leaves of Benzoin aestivale (L.) Nees. Black lake near Catskill, N. Y. H. D. House, August 21, 1915. Type in the herbarium of the New York State Museum.

The specimens are perhaps rather immature and might possibly develop septa in the spores, in which case it would be a Marsonia related to M. daphnes.

Gloeosporium hydrophylli Dearness & House, sp. nov.

Spots slaty gray, subcircular when not marginal, mostly about 1 cm broad, concentrically ridged when seen through a lens, becoming dry and brittle and breaking up.

Acervuli innate, often found in sections where their positions were not discovered with the lens. Spores hyaline, 5–9 x 2–2½ μ, nucleate at each end.

On living leaves of Hydrophyllum canadense L. Green lake near Kirkville, Onondaga county. H. D. House, August 1915. Type in the herbarium of the New York State Museum.

Ascochyta wisconsina Davis

Near Cicero, Onondaga county, on living leaves of Sambucus canadensis L. H. D. House, August 10, 1915. The fungus at first suggested a species of Gloeosporium but Professor Dearness, who identifies the species, notes that spores were found with a hyaline septum and that there is a thin pycnidial wall. The zonation, colors and spore measurements agree with the description of Ascochyta wisconsina, and differs from A. ebuli Fckl. described on Sambucus in Europe.

Leptonia euchlora (Lasch) Quel.

(Sacc. Syll. 5:713. 1887)

Pileus submembranaceous, campanulate becoming deeply depressed in the center, yellowish green or brownish when young becoming brownish with age, the surface radiately furrowed and streaked with paler tints, minutely tawny fibrillose and roughened

but scarcely squamulose, the margin irregular, 1–4 cm broad; flesh very thin and pallid; stipe slender, 2–4 cm long, 2.5–5 mm thick, hollow, grass green but the flesh pallid, surface becoming somewhat fuscus with age and slightly fibrillose; lamellae adnate and decurrent, rather distant, pallid or slightly yellowish when young, soon becoming flesh-colored; spores pale rusty brown in mass, angular, 9–13 x 5–9 μ.

Damp clay soil in deciduous thickets. Green lake near Kirkville, Onondaga county. H. D. House, *no. 14.16,* June 6, 1914. Orville, Onondaga county. George E. Morris, August 13, 1910.

Identification of this interesting species was suggested by Mr Morris and further examination of the specimens and notes makes the identification almost positive, and adds another species, heretofore known only in Europe, to the fungus flora of America.

The bright green stipe is so characteristic that the species can scarcely be mistaken. The two localities mentioned are about eight miles distant from each other.

Leptosphaeria triglochinis Schrt.

On dead stems of Triglochin palustre L. Castle swamp, Oneida, Madison county. H. D. House, June 20, 1915.

Leptosphaeria hydrophila Sacc.

Oneida, N. Y. on Typha angustifolia L. July 19, 1913. Determined by Saccardo. Originally described as found on Juncus effusus in Italy and not previously collected in America, nor upon this host.

Macrophoma viburni Dearness & House, sp. nov.

Pycnidia thickly scattered, nearly black, perforate, 125–270 μ in diameter. Conidia hyaline, naviculate, 19–25 x 6 μ, on evident short basidia.

Associated with a Rhabdospora on dead twigs of Viburnum opulus L. Catskill, N. Y. H. D. House, August 22, 1915. Type in the herbarium of the New York State Museum.

Metasphaeria staphyleae Dearness & House, sp. nov.

Perithecia scattered, raising the epidermis into flat, pale, perforated pustules, lenticular to subglobose, 180–360 μ; ostiola cylindric, obtuse and short.

Asci clavate-cylindrical, often widest near the middle,

75–90 x 8–15 μ, sometimes stipitate; paraphyses obscure, almost lacking among the older asci and then suggesting a Sphaerulina, but evident among the undeveloped asci.

Sporidia hyaline, elliptic, tri-septate, irregularly uniseriate, often biseriate near the middle or at the apex of the ascus, variable in size, 15–22 x 5–8 μ.

On dead twigs of Staphylea trifoliata L. West Park, Ulster county, N. Y. H. D. House, May 6, 1915. Also collected on the same host at Green pond, near Jamesville, Onondaga county, May 11, 1915. Type in the herbarium of the New York State Museum.

Metasphaeria staphylina (Pk.) Sacc. proves to be, upon examination of the type material, a species of Hysterium and is redescribed in another place.

Metasphaeria varia Dearness & House, sp. nov.

Perithecia thickly scattered, ½ mm apart or crowded, seated in the cortex and producing a black stain on the surface of the wood, rupturing and raising the cuticle into pustules about .3 mm in diameter, depressed globose with short very variable ostiola, in section white with a dark border.

Asci sparsely paraphysate but covered by a brownish layer of apparently paraphysal origin, adhering as though in a mucilaginous matrix and separable with difficulty, clavate, thick-walled, 75–100 μ.

Sporidia hyaline, biseriate, constricted, upper half larger, sometimes separating at the constriction, very variable in size from 15 x 3 μ to 27 x 7 μ or even 33 x 6 μ, and in septation 3–8 septate, quite frequently 4 septate in the upper half and 3 septate in the lower one, occasionally longitudinally septate between two septa.

On dead branches of Rhus copallina L. North Bay, Oneida county. H. D. House, June 22, 1915. Type in the herbarium of the New York State Museum.

Massaria plumigera E. & E.

var. **tetraspora** Dearness & House, var. nov.

Sporidia variable but larger than those of the type, the largest measuring 82 x 21 μ; asci 4–spored, 125–165 x 32–40 μ; paraphyses filiform and longer than the asci. As in the type the sporidia are permanently hyaline.

On dead twigs of Viburnum dentatum Linn. Albany, N. Y. Collected by H. D. House, May–June, 1915. Type in the

herbarium of the New York State Museum. Also collected on same host at Sylvan Beach, Oneida county, May 13, 1915.

Comparison of this collection with that made by Doctor Peck in 1877 on Viburnum lentago (31st Rep't, p. 50. 1879 as Massaria gigaspora Fckl.) shows them to be the same. The herbarium name of the specimens upon which this report was made was later changed by Doctor Peck to Massaria corni (Fr. & Mont.), which also inhabits Viburnum but its sporidia are brown and in globose-depressed perithecia. They differ from M. gigaspora Fckl. which is said to bear eight spores, four in an upper and four in a lower division of the ascus, and to have paraphyses shorter than the asci.

Microdiplodia lophiostomoides Dearness & House, sp. nov.

Pycnidia thinly scattered, when well developed rising through the closely investing elongate clefts in the bark, and strongly resembling a Lophiostoma, 1 x .25 mm.

Conidia brown, innumerable, uni-septate, guttate in each cell, oblong-elliptic, sometimes constricted, 11–13 x 5–7 μ, mostly about 12 μ long, on basidia often half their length.

On dead twigs of Liriodendron tulipifera L. Oneida, Madison county, N. Y. H. D. House, May 15, 1915. Type in the herbarium of the New York State Museum.

With one or two out of several sections there was found a Leptosphaeria with very minute perithecia, asci 40–45 x 8 μ, amber sporidia 15 x 4 μ, 3–septate, second cell largest. This might be supposed to be L. stictoides only that this species is said to have 5–septate sporidia.

Pestalozzia flagellifera E. & E.

On dead twigs of Comptonia peregrina (L.) Coulter. Near Albany, N. Y. H. D. House, July 19, 1915.

Phoma florida Dearness & House, sp. nov.

Pycnidia minute, .1 mm densely gregarious, subcuticular, causing ashen spots or stripes on the smooth, pale-brown twigs. Conidia sessile or nearly so, hyaline, 9 x 3 μ, rounded at the ends, mostly narrowed at one end.

On dead twigs of Cornus florida L. Yonkers, N. Y. H. D. House, May 8, 1915.

Phoma ailanthi Saccardo.

On dead shoots of Ailanthus glandulosus Desf. Yonkers. H. D. House, May 8, 1915. Albany. H. D. House, June 10, 1915.

Phoma imperialis Sacc. & Roum.

(Phoma paulowniae *Sacc.* not *Thüm.*)

On twigs of Paulownia tomentosa (Thunb.) Baill. Yonkers, N. Y. H. D. House, May 8, 1915.

The typical species inhabits petioles of Paulownia imperialis in France. The description in the Sylloge is rather meager to establish positively the identity of the Yonkers material, but for the nonessential fact that the former was on petioles while ours inhabits twigs, there is no difference so far as the description of the type goes. The following description is drawn from the Yonkers material.

Pycnidia immersed in the thin bark, mostly elliptic, 1 x .25–.3 mm, flat, dark brown or black and showing through the epidermis which is pierced by the short conic stomata; conidia abundant, hyaline, somewhat acutely elliptic, nucleate, 6–9 x 3 μ on basidia of about their own length.

Phoma paulowniae Thüm. is quite distinct.

Phoma linariae Dearness & House, sp. nov.

Pycnidia dark brown, very numerous, flat to subglobose or depressed around the small central stomata which pierce the cuticle, 150–200 μ in diameter; conidia numerous, hyaline, oblong to somewhat curved, 2–3 x 1 μ.

On dead stems of Linaria vulgaris Mill. Albany, N. Y. H. D. House, May 23, 1915.

Phoma longipes B. & C.

Orient Point, Long Island. On Morus alba L. Roy Latham, May 1, 1911. Reported as Phoma moricola Sacc. by Burnham and Latham in Torreya 14:210. 1914.

Phoma pectinata Dearness & House, sp. nov.

Pycnidia strictly hypophyllous, flat-globose to conic-globose, black, minutely perforate, stellately or cleftwise rupturing the raised cuticle, disposed in linear ranks, a few to about 20 on each side of the midvein, .25–.35 mm.

Conidia hyaline, ovoid to subglobose, 12–14 x 9–10 μ, on narrow sporophores, sometimes of their own length or longer.

On leaves of Abies pectinata on limbs which have died without casting their leaves. Oneida, Madison county, N. Y. H. D. House, May 14, 1915. Type in the herbarium of the New York State Museum.

Phoma platanicola Dearness & House, sp. nov.

Pycnidia rather sparsely scattered, raising the ruptured cuticle, pale, flat, circular, pseudo-locellate, .3–.5 mm. Conidia hyaline, non-guttulate, elliptic to subfusoid, 9–12 x 4–6 μ, on sporophores of the same length as the conidia, some of which are branched.

On dead twigs of Platanus occidentalis L. Sylvan Beach, Oneida county. H. D. House, June 21, 1915. Type in the herbarium of the New York State Museum. This comes near Phoma almeidae Sacc. & Trav., the conidia and sporophores of which are narrower and of different shape.

Phyllosticta ambrosioides Thüm.

On living leaves of Chenopodium ambrosioides L. Syracuse, N. Y. H. D. House, August 1915.

Phyllosticta staphyleae Dearness

On "blighted" capsules of Staphylea trifoliata L. near Black lake, north of Leeds, Greene county. H. D. House, August 21, 1915.

Phyllosticta myricae Cooke

On living and languishing leaves of Myrica carolinensis Mill. Sand's point, Long Island. H. D. House, September 8, 1915.

Phyllosticta steironematis Dearness & House, sp. nov.

Spots reddish, scattered, circular, 2–3 mm broad or confluent and extending over half or the whole of the leaf. Pycnidia amphigenous, black, 75–150 μ, not deeply seated. Conidia hyaline, globose, grumous, 5–6 μ.

On living leaves of Steironema ciliatum (L.) Raf. North Greenbush, N. Y. H. D. House, July 20, 1915. Type in the herbarium of the New York State Museum. The spores of this species are very distinct from those of either P. dodecathei Trelease or P. lysimachiae Allesch.

Puccinia conii (Strauss) Fuckel, II, III.

On leaves of Conium maculatum L. Eastport, Long Island. Collected by Dr C. H. Peck, August.

Ramularia cichorii Dearness & House, n. sp.

Spots scattered, small, grayish brown, alike on both sides of the leaf, bounded by usually 2 or 3 concentric ridges, 2–3 mm in diameter; tufts epiphyllous, minute, scarcely visible in the absence of sporules; conidia hyaline, not numerous on the tufts, even, continuous, 15–22 x 2¾ μ.

On living leaves of Cichorium intybus L. Evans Mills, N. Y. July. Collected by Dr C. H. Peck.

Scolescosporium coryli Dearness & House, n. sp.

Spots arid, definitely narrow bordered, 2–3 mm broad; acervuli epiphyllous, brown, irregular on the veinlets, hemispherical on the flat surface of the leaf, 100–150 μ; conidia four-celled, apical cell hyaline, somewhat elongate, subacute, others smoky brown, the basal one rounded; some of the spores curved, 12 x 5 μ.

On languishing leaves of Corylus americana Walt. Coleman's, N. Y. Collected by Dr C. H. Peck, October 3, 1908.

Septoria cryptotaeniae Ell. & Rau

On leaves of Deringa canadensis (L.) Kuntze. Fonda. Collected by Dr C. H. Peck, June.

Septoria mollisia Dearness & House, n. sp.

The affected part of the leaf, often the whole leaf, sordid or dull brown; pycnidia epiphyllous, waxy brown, punctate, very numerous, evenly scattered, 50–150 μ in diameter, widely open, saucerlike, suggesting Mollisia or Belonopsis; sporules straight, continuous, long and very narrow, 35–65 (mostly 60) by .5–.75 μ.

On leaves of Antennaria neodioica Greene and A. canadensis Greene, collected by M. S. Baxter near Greece, Monroe county, N. Y., May 1913. This species differs from Septoria lanariae Fairm. in lacking definite, margined spots and having longer, narrower sporules.

It may be questioned whether the waxy appearing rim is a part of a true pycnidial wall and whether the plant should not be called a Cylindrosporium.

Septoria pentstemonis E. & E.

On living leaves of Pentstemon laevigatus Ait. near Catskill, N. Y. H. D. House, August 21, 1915.

Septoria tenuis Dearness & House, sp. nov.

Pycnidia epiphyllous, numerous, seriate, nearly superficial, 90 μ in diameter. Sporules continuous, 45–90 x 1–1½ μ.

On dry dead portions of leaves of Carex tenuis Rudge, and on dry portions of leaves yet green. Sylvan Beach, Oneida county, N. Y. H. D. House, May 10, 1915. Type in the herbarium of the New York State Museum.

Sphaerella ciliata E. & E.

On dead stems of Steironema ciliata (L.) Raf. Sylvan Beach, Oneida county. H. D. House, May 13, 1915.

Sphaerella ailanthi Ell. & Barth.

On dead branches of Ailanthus glandulosa Desf. Albany, N. Y. H. D. House, February 22, 1915.

Sphaeropsis ceanothi Dearness & House, sp. nov.

Pycnidia subcuticular, raising the cuticle in globose-elliptic pustules, 200–300 μ, firm and white at first, darkening at maturity; ostiola round and merely penetrating the cuticle; spores strongly nucleate at first, finally homogeneous and brown, 20–22 by 10–11 μ, on basidia usually about half the length of the spores.

On dead stems of Ceanothus americanus Linn. Albany. H. D. House, January 1915. Type in the herbarium of the New York State Museum.

Sphaeropsis coryli E. & E.

On dead twigs of Corylus americana Marsh. Karner, Albany county. H. D. House, June 16, 1915.

Sphaeropsis parallela Dearness & House, sp. nov.

Pycnidia black, subglobose, .3 mm, minutely perforate, almost contiguous in parallel series, erumpent through elongate and finally continuous linear clefts in the cuticle. Conidia brown, pyriform but varying to subglobose, 18–30 x 12 μ, 1–3 guttate, on short basidia.

On dead branchlets of Cornus florida L. Yonkers, N. Y. H. D. House, May 8, 1915. Type in the herbarium of the New York State Museum.

Sphaeropsis viburni-dentati Dearness & House, sp. nov.

Pycnidia gregarious in the cortex, globose, 160–300 μ, raising the covering cuticle which is minutely pierced by the short black ostiola; conidia pale brown, oblong with rounded ends, 18 x 7 μ to 22 x 6½ μ, on basidia which are one-half to two-thirds of the length of the spores.

On dead stems of Viburnum dentatum Linn. Albany, N. Y. Collected by H. D. House, May–June, 1915. Type in the herbarium of the New York State Museum.

Differs from Sphaeropsis lantanae P. Brun., which has smaller dark-brown spores in erumpent, black perithecia, and from Sphaeropsis viburni Ell. & Dearness, which has larger, dark-brown, subpyriform spores and is phyllogenous.

Stagonospora convolvuli Dearness & House, sp. nov.

Spots reddish brown, irregular, .5 to 1 cm broad, deciduous, not bordered but faintly concentrically ridged on the upper side. Pycnidia mostly epiphyllous, black around the perforate mouth, 80–125 μ in diameter, obscure or imperfect beneath. Sporules hyaline, fusoid, subacute at one end, rounded at the other, nucleate, faintly 2–3 septate, 15–18 x 3–4 μ.

On living leaves of Convolvulus sepium L. Roadside north of Liverpool, Onondaga county. H. D. House, August 12, 1915. Type in the herbarium of the New York State Museum.

It was thought at first that this might be a variety of Septoria calystegiae West., but that has smaller spots and filiform conidia 30–40 x 4–5 μ. The difference between Septoria and Stagonospora is mainly that of "filiform" and "fusoid" as applied to the shape of the conidia. The specimens here considered belong clearly to the later type and hence to the genus Stagonospora. In Septoria calystegiae the pycnidia are mostly hypophyllous.

Vermicularia polygoni-virginici Schw.

On dead stems of Polygonum muhlenbergii (Meisn.) S. Wats. Sylvan Beach, Oneida county. H. D. House, May 13, 1915.

2 Notes on fungi

Asterina rubicola E. & E.

On living leaves of Rubus canadensis L. Albany. H. D. House, July 25, 1915.

Aulographum subconfluens Peck

(28th Rep't, p. 70. 1876. Sacc. Syll. II, p. 729)

The host plant given for this species by Professor Peck is "dead herbaceous stems," but an examination of the type specimens shows that the host is *Thalictrum*. Professor Peck obtained a later collection of this species near North Elba upon a host which he definitely identified as Thalictrum.

Barlaea lacunosa E. & E.

(Proc. Acad. Phil. 1894, p. 347. Sacc. Syll. XL, p. 396)

The only host given for this in the original description is "on bark." The specimen in the herbarium of the New York State Museum, from Waghorne, and presumably a duplicate of the type collection is on bark and dead twigs of Abies balsamea.

Ascochyta clematidina Thüm.

(See figure 1)

During the past two seasons this fungus, parasitic on the leaves of Clematis, has been noted with great frequency, causing a serious disfiguration and frequent death of leaves of the Virgin's-bower (Clematis virginiana) both wild and cultivated. Specimens of diseased leaves were collected in the counties of Albany, Rensselaer, Greene, Oneida, Madison and Onondaga. I assume that the disease, at least as a common parasite of the Clematis, is of recent appearance in this State, although it has been occasionally mentioned in literature as the cause of a serious leaf disease of cultivated Clematis, because there are no specimens in the state herbarium collected by Doctor Peck, who would not have overlooked it if it had been common in past years. It also appears to have been collected by J. M. Macoun, at Ottawa, Canada, in 1897.

Calyptospora columnaris (A. & S.) Kuhn.

Sylvan Beach, Oneida county. On stems of Vaccinium corymbosum Linn. H. D. House, May 13, 1915.

Fig. 1 ascochyta clematidina Thüm

Cercospora chionea E. & K.

Lyndonville. On leaves of Cercis japonica. Dr C. E. Fairman, August 1904. The spores are clavate and shorter than given in the description of C. chionea, but appear to be closer to that species than to C. cercidicola.

Cercospora longispora Peck

Sylvan Beach, Oneida county. On Lupinus perennis Linn. H. D. House, July 3, 1915.

Cercospora rhoina C. & E.

Near Schroeppel's Bridge, Oswego county. On leaves of Rhus copallina L. H. D. House, August 13, 1915.

Dothidella vacciniicola Dearness & House, sp. nov.

Stromata nodular, subglobose, 1–2 mm in diameter at the base, 1–2 mm high, dark brown, reaching to the base of the cortex, becoming hollow, subcarbonaceous.

Ascigerous locules peripherical, mostly but not wholly in a single layer, 6 or 7 to a mm, their position apparent in a surface view; ostiola punctiform 120–150 μ wide, 150 μ deep.

Asci linear to subclavate, tips subconnivent in the locules, 75–90 x 6–7 μ, paraphyses linear, 90–110 μ.

Sporidia hyaline, nearly uniseriate, somewhat overlapping, uniseptate, 10–12 x 5–6 μ.

Parasitic on living twigs of Vaccinium atrococcum (A. Gray) Heller, taken from herbarium plants collected at Biltmore, N. C. H. D. House, May 1912.

Dothidella vaccinii Rostr. inhabits leaves and has larger, appendaged sporidia.

Dendrodochium pallidum Peck

(Bul. Torrey Club 11, p. 50. Sacc. Syll. XI, p. 646)

The host for this species is given by Professor Peck as "rotten wood." An examination of the original specimens collected near Ottawa, Canada, by Professor Macoun shows that the host was decorticated and somewhat decayed maple (Acer).

Dendrophoma cephalanthi Peck

On dead branches of Cephalanthus occidentalis L. at Sylvan Beach, Oneida county. H. D. House, May 10 and June 21, 1915.

upon living branches of the hemlock at Elizabethtown, Essex county, and further study of the species may prove it to be the cause of considerable damage to living hemlocks.

Gloeosporium coryli (Desm.) Sacc.

Near Albany, on leaves of Corylus americana Walt. H. D. House *no. 14.136*, September 12, 1914, and August 13, 1915. Hewitt's pond, Adirondacks. Doctor C. H. Peck, July.

Gloeosporium divergens Peck

(See figure 2)

The leaves of the white oak (Quercus alba) are frequently disfigured by the attacks of this fungus and during the season of 1915 several serious outbreaks of this disease were noted in various localities. Young trees, sprout leaves and particularly seedlings in nurseries seem to suffer most severely but mature trees are by no means immune. This is probably the same fungus as described by Ellis and Everhart as Gloeosporium canadense.

Gloeosporium sassafras (Cooke) E. & K.

(Phyllosticta sassafras *Cooke*)

On leaves of Sassafras variifolium (Salisb.) Kuntze. Merrick, Long Island. H. D. House, September 9, 1915.

Haplosporella peckii (Sacc.) House, nom. nov.

(Sphaeropsis anomala *Peck*, 24th Ann. Rep't, N. Y. State Mus. 86, 1872. Not S. anomala *B. & C.*)

Sphaeropsis peckii *Sacc.* Syll. 3:293. 1894.

An odd species with the aspect of a Tympanis, the caespitose perithecia which are seated on the inner bark break through rather large transverse chinks in the bark; ostiola papillate; spores oblong, 20–25 μ in length. On the bark of dead cherry limbs near Albany. (Prescott.)

Hendersonia staphyleae E. & E.

On dead twigs of Staphylea trifoliata L. Green pond near Jamesville, Onondaga county. H. D. House, August 21, 1915. The same species has been collected near Albany by Doctor Peck.

Hygrophorus fuligineus Frost

In rich stony soil in a pine grove near North Bay, Oneida county. H. D. House, October 12, 1915. Doctor Peck reports it only from Albany county, in pine groves. The species is remarkable for the

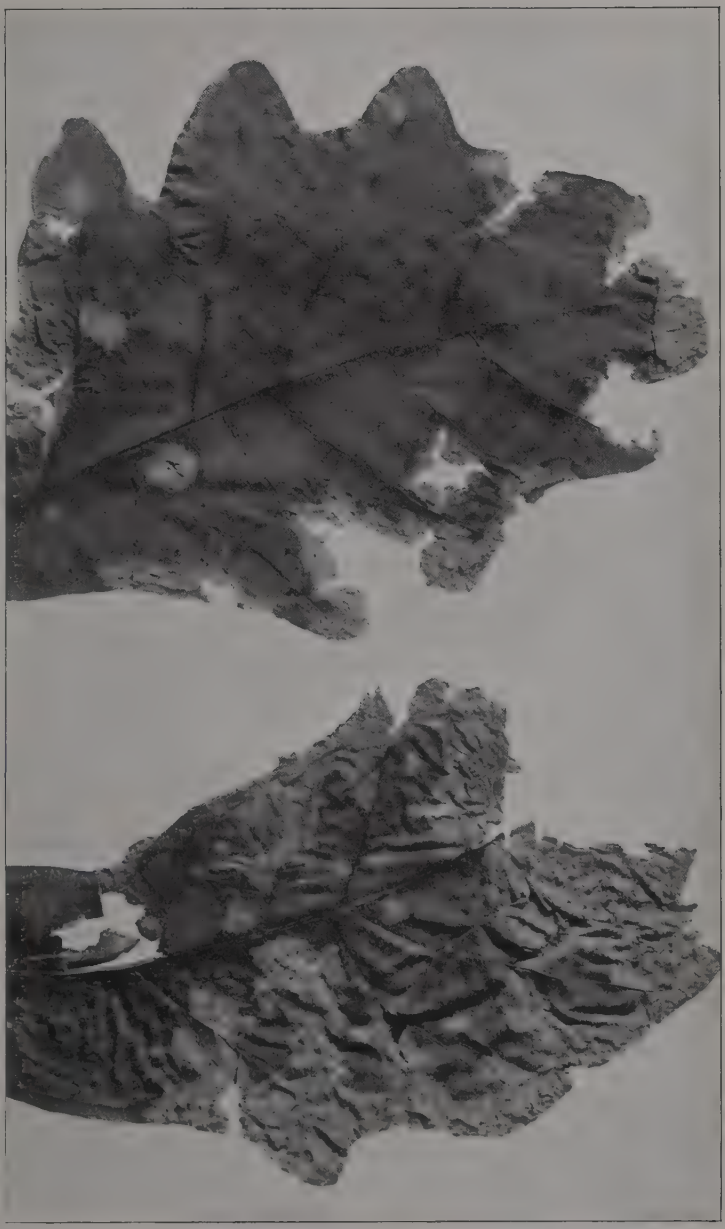


FIG. 2 GLOEOSPORIUM CANADENSE E. & E.

extreme viscidity of the pileus and stem, especially when young, when it is so viscid that it is almost impossible to hold.

Hysterium staphylina (Pk.) Dearness & House

Perithecia thickly scattered, erumpent through the epidermis, shining, black, round, 100–270 μ in diameter to elongate, straight or bent, .25–2 mm x .15–.3 mm, rather widely cleft.

Asci covered by a thin parenchymatous layer, fusoid-clavate, mostly 75 x 15 μ, some shorter and stouter, others much longer and narrower, paraphyses obscure.

Sporidia biseriate to crowded and overlapping, hyaline, 3–7 septate, finally brown and 5–8 septate, second, third or fourth cell from the top enlarged, usually slightly constricted below the lower half; the hyaline spores 18–30 x 5–6 μ, the longest brown spore seen measured 45 x 6 μ.

On dead twigs and branches of Staphylea trifoliata L. Helderberg mountains, N. Y. C. H. Peck, May. This was published as Sphaeria staphylina Peck (=Metasphaeria staphylina Sacc.) in the 26th Report of the State Botanist, page 86, and imperfectly described. This lacks the black crust of Hysterium insidens Schw. but the microscopic characters are similar.

This redescription of Doctor Peck's type material of Sphaeria staphylina was prompted by the discovery in Ulster county of a good Metasphaeria upon the same host and which did not match his material, the name of which had been transferred to Metasphaeria by Saccardo.

Leptostromella hysterioides (Fr.) Sacc.

On dead stems of Helianthus decapetalus L. Kenwood swamp, Oneida, Madison county. H. D. House, May 15, 1915. Sporules curved, 20–21 x 2–2½ μ.

Macrosporium saponariae Peck

Oneida, Madison county, on Saponaria officinalis Linn. H. D. House, June 20, 1915.

Morchella semilibera DC.

Kenwood swamp, near Oneida, Madison county. H. D. House, May 15, 1915. Also collected there in May 1885 by Mr Henry A. Warne, who also collected the same species near Madison, Madison

county. These appear to be the only records of the occurrence of the species in this State.

Nigredo rhyncosporae (Ellis) Arthur

Adirondack mountains on Rhyncospora glomerata (L.) Vahl. C. H. Peck, August. (Taken in abundance from herbarium specimens of this host, collected by Professor Peck several years ago, who apparently overlooked the rust upon it.)

Pestalozzia guepini Desm.

On living and languishing leaves of Smilax glauca Walt. Near Babylon, Long Island. H. D. House, September 19, 1915. The same host plant contained Phyllosticta smilacis E. & M. and what appears to be Physalospora disrupta (B. & C.) Sacc.

Pestalozzia monochaetoidea S. & E.

On dead branches of Opulaster opulifolius (L.) Kuntze. Albany, N. Y. H. D. House, June 5, 1915.

Phacidium sparsum Peck

(Bot. Gaz. 5, p. 35–36. Sacc. Syll. VIII, p. 716.)

Collected in Vermont by C. G. Pringle and the host, given by Peck as dead wood and by Saccardo as "Ligno dejecto," proves to be upon examination white pine (Pinus strobus) wood which is partially decayed.

Phleospora chenopodii E. & K.

(Stagonospora chenopodii *Peck*, Septoria atriplicis *Desm.*, Septoria chenopodii *West*)

On living leaves of Chenopodium album L. Catskill. H. D. House, August 16, 1915.

Phoma bumeliae House, nom. nov.

Phoma maculans *Sacc.* Syll. III:116. 1884. Not P. maculans *Sacc.* 1. c. 102. Sphaeropsis maculans *B. & C.* North Am. Fungi No. 417. Not S. maculans *Lev.* (1846).

On leaves of Bumelia, Alabama (Peters).

Phoma verbascicola (Schw.) Sacc.

On dead stems of Verbascum thapsus L. Pecksport, Madison county. H. D. House, July 2, 1915. Also collected at Sand lake by Doctor Peck.

Phyllosticta apocyni Trelease

On living leaves of Apocynum androsaemifolium L. Green's pond, near Leeds, Greene county. H. D. House, August 17, 1915. Also collected on the same host at Mechanicville by Doctor Peck.

Phyllosticta liriodendri Cooke

Along the edge of a woodland north of Liverpool, Onondaga county, there was noticed on August 12th, a yellow poplar tree (Liriodendron tulipifera L.) upon which the majority of the leaves were badly disfigured by insect galls and spots upon which appeared a Phyllosticta. About half of the circular brown spots were clearly caused by Phyllosticta liriodendri Cooke (P. circumvallata Wint.). Most of the remaining spots were blisterlike galls with considerable dead tissue surrounding them and caused by the gall midge Thecodiplosis liriodendri Osten Sacken (det. Felt), and upon these spots was a frequent occurrence of Phyllosticta macrospora E. & E., with sporules 18–22 x 6–8 μ. One spot showed the presence of a Sphaeropsis evidently related to Phyllosticta macrospora, while another spot showed a Septogloeum with spores 33–40 x 4 μ. It is interesting to note that Phyllosticta macrospora was also found at Black lake near Catskill on similar spots apparently caused by a gall midge on leaves of Vitis labrusca (August 21, 1915).

Phyllosticta variabilis Pk.

Jamesville, Onondaga county. On leaves of Rubus odoratus. H. D. House, August 9, 1915. Professor Dearness, who compared these specimens with the types of P. variabilis Pk. and P. bicolor Pk., regards all three as essentially the same, although the effect of the fungus upon the leaf tissue seems to be different in each case and the Jamesville specimens have a wider range of spore measurements, namely, 5–8 x 3 μ.

Phyllosticta paviae Desm.

(Phyllosticta sphaeropsoidea *Ell.*)

(See figure 3)

On living leaves of Aesculus hippocastanum L. Catskill, August 18, 1915. This fungus is responsible for a very unsightly disfiguration of the foliage of horse chestnut trees in some localities. Certain trees near Catskill were so badly affected in 1915 that by the end of August practically all the leaves were turning brown and many of them falling. Fortunately the disease does not appear to reoccur with equal abundance from year to year. Mr V. B. Stewart (Abs. in Phytopathology 4:399. 1914) shows that the sexual stage of Phyllosticta paviae is Laestadia aesculi Peck which occurs commonly upon the fallen petioles and leaves.

Physalospora ceanothina (Peck) Sacc.

(Sphaeria ceanothina *Peck*)

On dead twigs of Ceanothus americanus Linn. Karner, Albany county. H. D. House, April 1915. The type was also collected at Karner by Professor Peck in May 1875.

Poria attenuata Peck

Karner, Albany county. H. D. House, *no. 148*, October 3, 1914. Sylvan Beach, Oneida county. H. D. House, October 12, 1915. Rather common on dead hardwood sticks on the ground in moist woods and thickets.

Phyllosticta phomiformis Sacc.

(See figure 4)

This fungus, common on the leaves of Quercus alba, prinus and prinoides, appears to be invariably associated with the insect galls caused by Cincticornia, and is therefore of a saprophytic nature, although occurring on living leaves. This species has been transferred to the genus Macrophoma, but all our specimens have spores much smaller than described by Saccardo and it is quite possible that they should not be referred to his species.

Phoma galactis Dearness & House, n. sp.

Pycnidia subcuticular, hemispheric, black, thickly scattered, 200 μ in diameter; spores pyriform, hyaline, on basidia of about the length of the spores which are very small, oblong, 2½–3 x 1½ μ.

Dead flowering stems of Galax aphylla L. Biltmore, N. C. H. D. House, May 1912.

FIG. 3 PHYLLOSTICTA PAVIAE DESM.

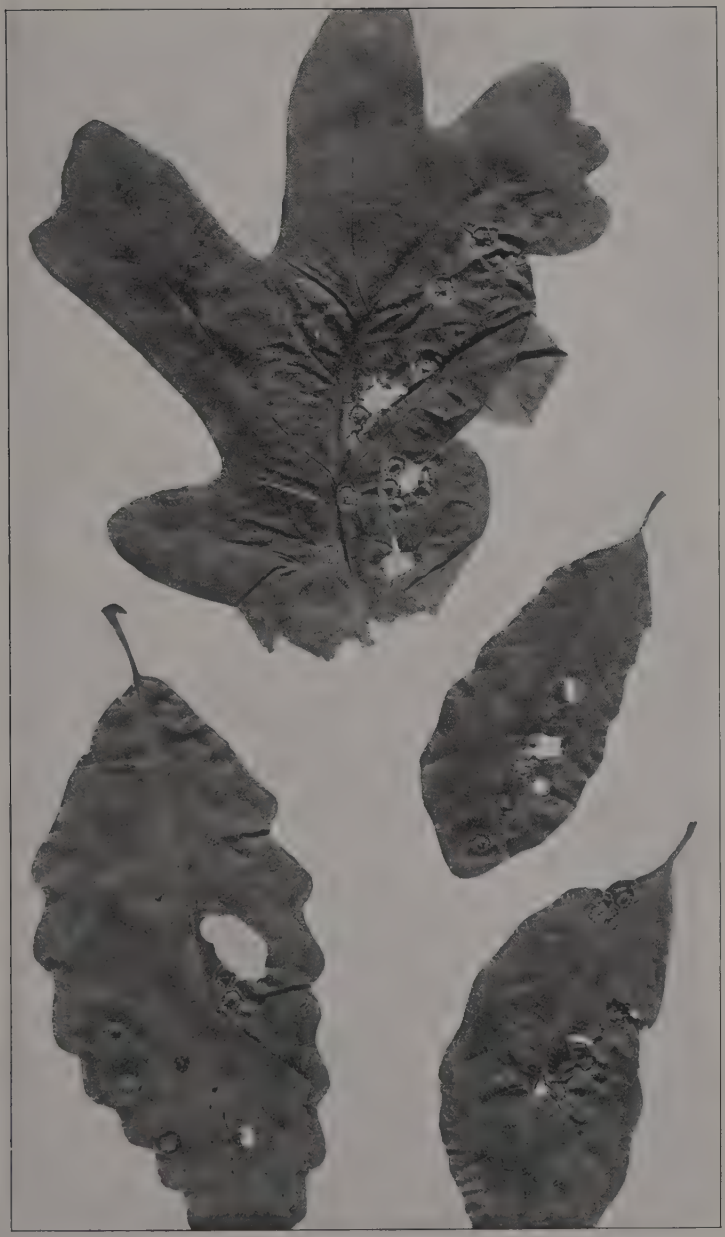


FIG. 4 PHYLLOSTICTA PHOMIFORMIS SACC.

Poria calcea Fr.

North Greenbush, Rensselaer county. H. D. House, *no. 233*, October 10, 1914.

Ramularia arvensis Sacc.

On living leaves of Potentilla monspeliensis L. Oneida, Madison county. H. D. House, June 27, 1915. Also collected at Newman, N. Y., on the same host by Doctor Peck.

Ramularia barbareae Peck

Sylvan Beach, Oneida county. On leaves of Barbarea vulgaris R. Br. H. D. House, May 10, 1915.

Ramularia obovata Fckl.

On living and languishing leaves of Rumex crispus L. Albany. H. D. House, July 23, 1915. Karner. October 8, 1914. This is the form with obovate, nonseptate conidia. The one with clavate-oblong 1-septate spores is known as Ramularia obliqua (Cooke) Oud., and appears to be the one most frequently collected in this State. By some these two are regarded as forms or phases of the same species, to which may also be united Ramularia decipiens E. & E.

Rhizina inflata (Schaeff.) Quel.

(R. undulata *Fr.*)

Under hemlock and birch trees, Pleasant Lake north of Schroeppels Bridge, Oswego county. H. D. House, August 11, 1915. Doctor Peck has collected this species at Forestburg, Sullivan county, Hague, Warren county and Greig, Lewis county. At the Oswego county locality the fungus appears to be chiefly saprophytic, but several instances were observed where the mycelium of the fungus invested and was apparently parasitic on hemlock seedlings, causing their death.

Septogloeum ochroleucum (B. & C.) Dearness, com. nov.

(Septoria ochroleuca *B. & C.*; Phyllosticta, *Pk.*; Gloeosporium, *B. & C.*; Cryptosporium epiphyllum *C. & E.*)

Schroeppels Bridge, Oswego county, on living leaves of Castanea dentata (Marsh.) Borkh. H. D. House, August 13, 1915. Also collected by Doctor Peck at Sand Lake, Copake and Wading River.

Septoria atropurpurea Peck

On living leaves of Aster corymbosus Ait. Karner, Albany county. H. D. House, July 26, 1915. The following host species for this fungus are represented in the state herbarium in addition to the above: Aster macrophyllus (N. Y. Peck, *type*); Aster drummondii (Wisc. Davis); Aster laevis (Ontario, Dearness); Aster corymbosus (Ontario, Dearness).

Septoria conspicua E. & M.

On living leaves of Lysimachia quadrifolia L. near Huntington, Long Island. H. D. House, September 17, 1915.

Septoria erigerontis Peck

On leaves of Erigeron annuus L. Albany. H. D. House, July 25, 1915. On leaves of E. pulchellus, Cicero, Onondaga county, August 12, 1915. On leaves of E. philadelphicus, Oneida, Madison county. May 14, 1915.

Septoria verbenae Rob. & Desm.

On living leaves of Verbena hastata L. Outlet of Onondaga lake, Onondaga county. H. D. House, August 10, 1915. On same host, Pecksport, Madison county. July 2, 1915. Albany, June 19, 1915.

Septoria wilsoni Clinton

On living leaves of Chelone glabra L. North of Liverpool, Onondaga county. H. D. House, August 10, 1915. On same host, Albany, July 25, 1915. Other collections of this species, on the same host, in the state herbarium are Buffalo (Clinton, *type*); Alcove (Shear); North Elba and Caroga (Peck).

Sphaeropsis ailanthi Ell. & Barth.

Albany, N. Y., on dead twigs of Ailanthus glandulosa Desf. H. D. House, February 22, 1915.

Sphaeropsis conspicua House, nom. nov.

Sphaeropsis maculans *Peck*, 39th Rep't. N. Y. State Museum, p. 46. 1886. Not S. maculans *Lev.*, Ann. Sci. Nat. 1846, p. 297.

Perithecia immersed, 400–500 μ broad, black; ostiola papillate; sporules elliptical, colored, 10–12.5 x 5–6.5 μ.

On decorticated dead twigs (apparently Acer), Adirondack mountains. May 1885 (Peck).

Sphaeropsis linearis Peck

(25th Ann. Rep't, N. Y. State Museum, p. 86. 1873)

Professor Peck states that S. linearis occurs on oak but an examination of the type material shows that an error was made in the identification of the host which proves to be unmistakably hickory, and hence the name S. linearis Peck must replace the name Sphaeropsis caryae C. & E., having priority over it, and being identical in all particulars. Curiously enough, while the type host material is unmistakably hickory, I have an abundant collection on twigs of Quercus alba, Albany, March 14, 1915, of which Professor Dearness, after a careful examination, says, "So near S. linearis, if it is not exactly that, as to leave no room to make another species of it." The species must therefore be credited to both hickory and oak.

Sphaeropsis sepulta E. & E.

(S. mori *E. & E.*)

Albany, N. Y. On dead twigs of Morus alba L. H. D. House, February 22, 1915. Also collected at Orient Point, Long Island, by Roy Latham and at Southfield, Long Island, by Professor Peck on Morus alba, and at West Albany, on Morus rubra, by Professor Peck.

Vermicularia compacta C. & E.

On dead stems of Saponaria officinalis L. Sylvan Beach, Oneida county. H. D. House, May 10, 1915. Trichia few, 40–60 x 4–6 μ; sporules arcuate, acute, 20–22 x 2.5–3 μ.

Vermicularia herbarum (Pers.) Fr.

Among the numerous hosts upon which this has been found during the past season, may be mentioned the following: Aralia nudicaulis (spores 20–25 x 3 μ); Vitis labrusca; Aster macrophyllus; Sambucus canadensis; Fraxinus americana; and Meibonia canadensis.

Vermicularia liliacearum Westd.

On dead stems of Uvularia perfoliata L. Oneida, Madison county. H. D. House, May 14, 1915. "Trichia numerous; sporules 20 x 2¾–3 μ."

Valsa ambiens (Pers.) Fr.

Very abundant on dead twigs of Ceanothus americanus L. Albany. H. D. House, November to March. Also collected at New Scotland, Albany county, on the same host by Professor Peck and on Ceanothus ovatus Desf. near New York by H. D. House.

Valsa subclypeata C. & P.

Sylvan Beach, Oneida county. On dead limbs of Sassafras variifolium (Salisb.) Kuntze. H. D. House, May 10, 1915.

Venturia cassandrae Peck

Pecksport, Madison county. On fallen leaves of Chamaedaphne calyculata (L.) Moench. H. D. House, July 2, 1915. Also collected at Karner, Albany county, April 22, 1915.

The following species of Asterostroma, Corticium, Coniophora, Hypochnus, Merulius, Odontia, Peniophora and Poria have been determined in major part by Prof. E. A. Burt of the Missouri Botanical Garden, St Louis, to whom the specimens were submitted for identification or verification.

Asterostroma cervicolor (B. & C.) Massee

Near Albany, on decaying decorticated branches lying on the ground in the woods. H. D. House and Joseph Rubinger, October 23, 1915.

Corticium colliculosum B. & C.

Near Albany, on dead limbs of Prunus pennsylvanica L. H. D. House, November 26, 1915.

Corticium evolvens Fr.

Sylvan Beach, Oneida county, on dead oak branches lying on the ground. H. D. House, October 12, 1915. Albany, November 26, 1915, on the same host and also on bark of decayed maple limbs.

Corticium berkeleyi Cooke

Near Albany, on bark of Pinus strobus. H. D. House and Joseph Rubinger, October 23, 1915. Newtonville, on the same host. Dr C. H. Peck (date of collection not indicated).

Corticium alutaceum (Schrad.) Bres.

Near Albany, on decayed bark and wood. H. D. House and Joseph Rubinger, October 23, 1915.

Corticium investiens (Schw.) Bres.

(Thelephora subochracea *Peck*)

Karner, Albany county. H. D. House, October 3, 1914. Albany, H. D. House and Joseph Rubinger, October 23, 1915. One of the commonest species of the genus and apparently showing little choice of host, growing on and investing leaves, sticks, twigs, bark and branches of both coniferous and deciduous species lying on the ground in the woods. It has also been collected by Doctor Peck at Shokan, Floodwood, Schuylerville and Snyder's Corners.

Corticium laetum Karst.

Karner, Albany county. H. D. House, *nos. 161 and 164*, October 3, 1914.

Corticium mutatum Peck

Near Albany, on bark of fallen and decaying limbs of Populus tremuloides. H. D. House, November 26, 1915.

Corticium roseopallens Burt

Karner, Albany county. H. D. House, *no. 170*, October 3, 1914. Near Sylvan Beach, Oneida county, on bark of decayed birch limbs.

Corticium atrovirens Berk.

Karner, Albany county. H. D. House, *no. 205*, October 8, 1914.

Corticium effuscatum C. & E.

Karner, Albany county. H. D. House, *no. 210*, October 8, 1914. Greenbush, Rensselaer county. H. D. House, *no. 236*, October 10, 1914. Not a rare species, at least in this part of the State, having also been collected by Doctor Peck at East Berne, Westport and East Schaghticoke.

Corticium epigaeum E. & E.

Karner, Albany county. On dead twigs lyings on the ground in woods. H. D. House, *no. 160*, October 3, 1914.

Coniophora olivascens (B. & C.) Massee

Albany. On fallen branches in woods. H. D. House, November 26, 1915. At the same place and date were collected the much commoner species Coniophora puteana Schum. on fallen pine limbs and Coniophora arida Fr. on decaying coniferous log.

Corticium suffocatum Peck

Karner, Albany county. H. D. House, *no. 165*, October 3, 1914. Originally collected at Sand lake by Doctor Peck and generally referred to the genus Coniophora.

Corticium sambuci Fr.

Near Albany. On dead limbs of hickory lying on ground in woods. H. D. House and Joseph Rubinger, October 12, 1915. Clarksville. On decayed wood and bark of Juglans cinerea. Dr C. H. Peck (date of collection not indicated).

Corticium vagum B. & C.

Near Albany, on decayed and decorticated hemlock limbs lying on ground in woods. H. D. House and Joseph Rubinger, October 23, 1915.

Hypochnus granulosus (Peck) Burt

(Zygodesmus granulosus *Peck;* H. elaeodes *Bres.*)

Karner, Albany county. H. D. House, *no. 211*, October 8, 1914. Near Albany. H. D. House and Joseph Rubinger, October 23, 1915. Zygodesmus granulosus was collected by Doctor Peck at East Schaghticoke, and the state herbarium also contains an additional specimen collected at Flatbush by Zabriskie.

Hypochnus subferrugineus Burt

Sylvan Beach, Oneida county. On decayed bark and wood of oak. H. D. House, October 12, 1915.

Hypochnus olivaceous (B. & C.) Burt

Karner, Albany county. H. D. House, *no. 167*, October 3, 1914. North Greenbush, Rensselaer county. On dead hemlock bark. H. D. House, November 25, 1915.

Hypochnus fuscus (Pers.) Fries

Near Albany. On dead branches of pine. H. D. House and Joseph Rubinger, October 23, 1915.

Merulius bellus B. & C.

Near Albany. On decayed hemlock limbs lying on ground in woods. H. D. House and Joseph Rubinger, October 23, 1915.

Odontia trachytricha (E. & E.) Burt

(Peniophora trachytricha *E. & E.*, Odontia acerina *Pk.*)

Karner, Albany county. H. D. House, *no. 207*, October 8, 1914.

Peniophora affinis Burt

Albany. On bark of fallen and decayed branches. H. D. House, November 26, 1915.

Peniophora crassa Burt

Sylvan Beach, Oneida county. On charred undersurface of logs of Pinus rigida. H. D. House, October 12, 1915.

Peniophora filamentosa (B. & C.) Burt

(Peniophora unicolor *Peck*)

North Greenbush, Rensselaer county. H. D. House, *no. 235*, October 10, 1914. Same locality, on bark of decayed branches of Ulmus americana lying on ground in woods, November 25, 1915. The type of P. unicolor Peck was collected at Bolton, Warren county.

Peniophora incarnata Fr.

Albany, on fallen and decorticated branches of Prunus pennsylvanica. H. D. House, November 26, 1915.

Peniophora laevis (Fr.) Burt

Karner, Albany county. H. D. House, *no. 153*, October 3, 1914. North Greenbush, Rensselaer county. H. D. House, *no. 234*, October 10, 1914.

Peniophora longispora Pat.

East Berne, Albany county. On decayed log. Dr C. H. Peck (date of collection not indicated).

Peniophora pubera (Fr.)

Karner, Albany county. H. D. House, *no. 206*, October 8, 1914.

Peniophora sordida Karst.

Karner, Albany county. H. D. House, *no. 188*, October 3, 1914.

Peniophora velutina DC.

Sylvan Beach, Oneida county. On charred undersurface of maple log. H. D. House, October 12, 1915.

Poria pulchella Schw.

Sylvan Beach, Oneida county. On charred undersurface of logs in woods. H. D. House, October 12, 1915.

Rhinotrichum curtisii Berk.

North Greenbush, Rensselaer county. On bark of decayed oak limbs on ground in open woods. H. D. House, November 25, 1915.

Stereum rameale Schw.

Albany, on dead limbs of Prunus pennsylvanica. H. D. House, November 26, 1915.

NOTES UPON LOCAL FLORAS III

MADISON COUNTY

Antennaria neglecta Greene

Oneida. H. D. House, June 4, 1914. Pecksport. H. D. House, June 5, 1915.

Antennaria grandis (Fernald) House

Pecksport. H. D. House. June 10, 1914.

Antennaria fallax Greene

Oneida. H. D. House, June 4, 1914.

Antennaria parlinii Fern. var. **arnoglossa** Fern.

Thin soil on limestone ledges in open woods, Chittenango Falls. H. D. House, June 9, 1914.

MONROE COUNTY

Antennaria occidentalis Greene

(A. Farwellii *Fern.* not *Greene*)

East Rochester. M. S. Baxter, *nos. 319 and 320,* October 1912 and May 23, 1913.

Antennaria petaloidea Fernald

Penfield. M. S. Baxter, May 23, 1915.

Antennaria fallax Greene

Perinton and East Rochester. M. S. Baxter, May 23–25, 1915.

Antennaria ambigens (Greene) Fernald

Greece and Perinton. M. S. Baxter, May 17 and 25, 1913.

Antennaria neodioica Greene

Perinton. M. S. Baxter. May 17, 23 and 25, 1915.

Antennaria canadensis Greene

Penfield and Perinton. M. S. Baxter, May 23 and 25, 1915. Near Greece. M. S. Baxter, May 17, 1913.

Antennaria plantaginifolia (L.) Richard.

Greece and Perinton. M. S. Baxter, May 17, 23 and 25, 1913.

Antennaria grandis (Fernald) House

Perinton. M. S. Baxter, May 25, 1915.

Antennaria neglecta Greene

East Rochester, Perinton, Greece and Penfield. M. S. Baxter, May 1913.

Chamaesyce glyptosperma (Engelm.) Small

(Euphorbia glyptosperma *Engelm.*)

Sandy soil, Irondequoit. M. S. Baxter, August 1915. A rare species in the east. Reported from Fisher's Island, N. Y., and from Oxford county, Maine, while its usual range is given as Ontario to Wisconsin, Missouri and westward.

Selaginella ruprestris (L.) Spring.

Sandy plains near Penfield. M. S. Baxter, October 31, 1915. A local but not particularly rare species. This record is interesting as indicating that while its usual habitat is dry rocky ledges, it may sometimes occur in dry sandy places.

NASSAU COUNTY

September 8th and 13th were spent in and around the salt marshes just north of Long Beach, and on Long Beach itself. The species observed at this season constitute an interesting list for this locality, and are characteristic for the extensive salt marshes on this part of Long Island.

Agalinis maritima *Raf.*
" purpurea (*L.*) *Britton*
Angelica atropurpurea *Linn.*
Argentina anserina (*L.*) *Rydb.*
Aster novi-belgii *Linn.*
" salicifolius *Lam.*
" subulatus *Michx.*
" tenuifolius *Linn.*
Atriplex hastata *Linn.*
Baccharis halimifolia *Linn.*
Cakile edentula (*Bigel.*) *Hook.*
Chamaecrista fasciculata (*Michx.*) *Greene*
Clethra alnifolia *Linn.*
Cyperus strigosus *Linn.*
Cuscuta gronovii *Willd.*
Distichlis spicata (*L.*) *Greene*
Dondia linearis (*Ell.*) *Heller*
Echinochloa walteri (*Pursh*) *Nash*
Elymus virginicus *Linn.*
Falcata comosa (*L.*) *Kuntze*
Fimbristylis autumnalis (*L.*) *R. & S.*
Fuirena squarrosa *Michx.*
Glycine apios *Linn.*
Helianthus angustifolius *Linn.*
" giganteus *Linn.*
Hibiscus moscheutos *Linn.*
" oculiroseus *Britt.*
Hydrocotyle verticillata *Thumb.*
Ibidium cernuum (*L.*) *House*
Iva frutescens *Linn.*
Juncus gerardii *Lois.*
Limonium carolinianum (*Walt.*) *Britt.*
Lysimachis terrestris (*L.*) *B. S. P.*
Mikania scandens (*L.*) *Willd.*

Marsicus mariscoides (*Muhl.*) *Kuntze*
Persicaria pennsylvanica (*L.*) *Small*
Plantago maritima *Linn.*
Puccinellia distans (*L.*) *Parl.*
Ptilimnium capillaceum (*Mx.*) *Raf.*
Polygonum prolificum (*Small*) *Rob.*
Panicum dichotomiflorum *Michx.*
Pluchea camphorata (*L.*) *DC.*
Samolus floribundus *H. B. K.*
Salsola kali *Linn.*
Salicornia europaea *Linn.*
Sabbatia dodecandra (*L.*) *B. S. P.*
" stellaris *Pursh*
Scirpus americanus *Pers.*
" robustus *Pursh*
Solidago sempervirens *Linn.*
Spergula arvensis *Linn.*
Spartina cynosuroides (*L.*) *Roth*
" patens (*Ait.*) *Muhl.*
Teucrium littorale *Bicknell*
Tissa marina (*L.*) *Britt.*
Triglochin maritima *Linn.*
Stroptostyles helvola (*L.*) *Britt.*
Vernonia noveboracensis (*L.*) *Willd.*
Viola lanceolata *Linn.*
" brittoniana *Pollard*
" pectinata *Bicknell*
Xanthium echinatum *Murr.*

Althaea officinalis Linn.

In and around the margins of brackish and salt water marshes near Port Washington. H. D. House, September 16, 1915. A native of Europe which has become very abundant on this part of Long Island.

Sanguisorba canadensis Linn.

Very abundant in a swamp along the Merrick road between Merrick and Freeport. H. D. House, September 9, 1915.

Lespedeza stuvei Nutt.

Dry banks along a roadside through deciduous woodland near Port Washington. H. D. House, September 16, 1915.

Lonicera sempervirens Linn.

Open woods near Sand's Point, Long Island. H. D. House, September 16, 1915. This is a common species in the south, but is very rare in New York, although it has been reported from southern New England. In Paine's Catalogue of the Plants of Oneida County and Vicinity, it is recorded as having been found by J. H. Hall at Tarrytown and on the hills eastward, and on the borders of Otsego lake, Otsego county, by B. D. Gilbert and H. Lathrop. The latter is an outlying station for the species comparable to some of the isolated northern stations in New York State for Ilex montana, Ophrys australis, Blephariglottis ciliaris, Rhyncospora corniculata, Lathyrus ochroleucus and other species. The report of the Director of the State Museum for 1915 contains a colored plate illustrating this species, the photograph of which was taken at this locality.

Tagetes erecta Linn.

In a waste place near a roadside not far from Rockville Center, where rubbish had evidently been dumped at one time. The Marigold, as this species is known, is a common plant of old gardens in America but appears to have become established but rarely in this latitude although perfectly hardy in cultivation. Our specimens were single, possessing disc and ray flowers instead of the large mass of crinkled rays common in the cultivated varieties, and bore an abundance of good seeds. Numerous specimens in the immediate vicinity seemed to indicate that the species was well established and propagating itself by seed from year to year.

ONEIDA COUNTY

Polygonum buxiforme Small

Forming broad mats on the sandy shores of Oneida lake near Sylvan Beach. H. D. House, October 11, 1915.

Polygala pauciflora Willd.

Edge of pine woods, North Bay. H. D. House, June 25, 1915.

Panicum ashei Pearson

Open woods, sandy soil, North Bay. H. D. House, June 19, 1915. Also collected at Ithaca in 1884 by Prof. William Dudley.

Panicum columbianum Scribn.

Sandy soil along margin of oak woods. H. D. House, July 24, 1914.

Panicum addisonii Nash

Sandy soil, near Sylvan Beach. Dr J. V. Haberer.

Panicum implicatum Scribn.

Sandy fields near Sylvan Beach. H. D. House, July 24, 1914. Near Deerfield (Haberer). Also collected by Professor Peck at Fulton Chain, North Elba, Gansevoort and North Albany.

Panicum sphaerocarpon Ell.

Sandy fields near Sylvan Beach. H. D. House, July 20, 1914.

Panicum lindheimeri Nash

Open sandy woods near Sylvan Beach. H. D. House, July 20, 1914. Also collected in Bergen swamp, Genesee county, and at Amagansett, Long Island, by Professor Peck.

Panicum spretum Schult.

Sandy soil near Sylvan Beach. H. D. House, June 21, 1915. A species apparently widely distributed throughout the State, having been collected by Professor Peck at Whitehall, West Albany and Riverhead, at Orient Point by Roy Latham and at Penfield, Monroe county, by M. S. Baxter. The collections by H. D. House mentioned above have all been determined by Prof. A. S. Hitchcock.

Panicum xanthophysum A. Gray

Moist places in sandy woods near Sylvan Beach. H. D. House, July 20, 1915.

Panicum werneri Scribn.

Dry thickets, North Bay. H. D. House, June 1915.

Antennaria neglecta Greene

Sylvan Beach, eastern end of Oneida lake. H. D. House, June 4, 1914.

Antennaria grandis (Fern.) House

Sylvan Beach. H. D. House, June 5, 1915.

Antennaria fallax Greene

Sandy fields near Sylvan Beach. H. D. House, June 8, 1914. Also collected here by Doctor Haberer, June 1, 1903.

Panicum boreale Nash

Open woods near North Bay. H. D. House, July 1915.

Panicum tennessensis Ashe.

Dry oak woods near Sylvan Beach. H. D. House, June 1915.

Trillium cernuum Linn.

Low sandy woods and thickets near Sylvan Beach. H. D. House, May 1915.

ST LAWRENCE COUNTY

Viola selkirkii Pursh

Near Canton. Mrs Orra Parker Phelps, May 2, 1915. The great-spurred violet, although locally abundant, is rather sparingly distributed throughout the Northeastern states and Canada. In

New York it has been collected near Utica, Oneida county; Minerva, Essex county; W. Albany, Albany county; Little Falls, Herkimer county; Oneida, Madison county; and Jamesville, Onondaga county.

Antennaria canadensis Greene

Collected at Colton, Lisbon, Canton and Hopkinton by Mrs Orra Parker Phelps, May 13–25, 1915.

Antennaria neodioica Greene

Collected at Hopkinton, Stockholm, Hammon, Norfolk and Canton by Mrs Orra Parker Phelps, May 13–25, 1915.

Antennaria fallax Greene

Near Hammond. Mrs Orra Parker Phelps, May 19, 1915.

Antennaria petaloidea Fernald

Near Canton. Mrs Orra Parker Phelps, May 25, 1915.

Antennaria neglecta Greene

Near Stockholm. Mrs Orra Parker Phelps, May 19, 1915.

SUFFOLK COUNTY

Panicum commonsianum Ashe

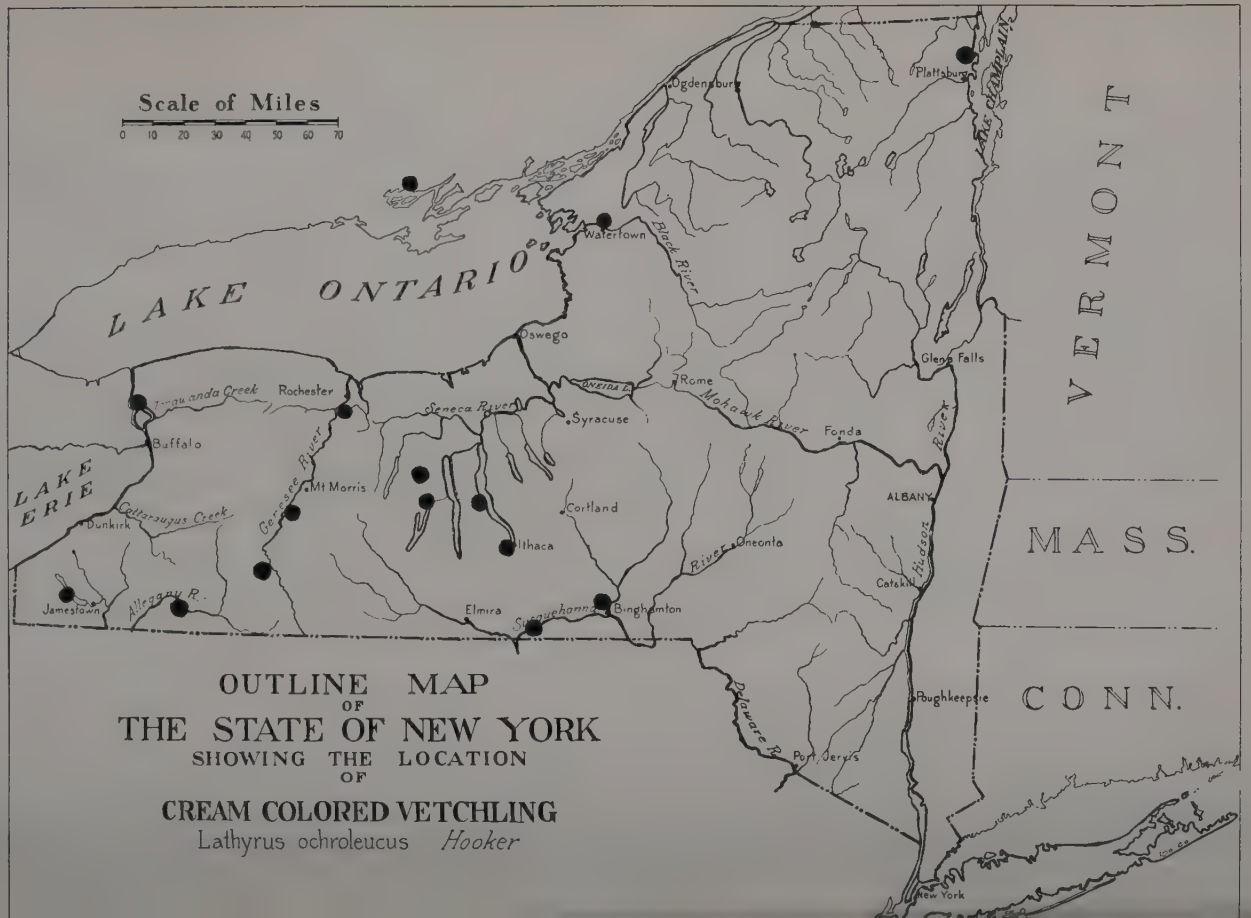
Riverhead. Charles H. Peck. July. Determined by Prof. A. S. Hitchcock.

Hypericum densiflorum Pursh

Near Babylon. H. D. House, September 21, 1915. A species common in the sandy coastal plains and barrens of New Jersey as far north in the State as they extend, but apparently not previously recorded from Long Island.

Aster spectabilis Ait.

Edge of woods in sandy soil, near Babylon. H. D. House, September 21, 1915. Almost without question the most showy of the blue-flowered Asters of the north.



OUTLINE MAP
OF
THE STATE OF NEW YORK
SHOWING THE LOCATION
OF
CREAM COLORED VETCHLING
Lathyrus ochroleucus *Hooker*

WARREN COUNTY

Elymus glaucus Buckley

Warrensburg. Charles H. Peck, July. Determined by Prof. A. S. Hitchcock, to whom was submitted a large number of undetermined grasses collected by Professor Peck. The range given for this species is "Ontario and Michigan to British Columbia, Colorado and California." The Warren county collection constitutes not merely a new species for the state flora but a remarkable eastward extension to the known range of the species.

Pyrola asarifolia Michx.

Bog near Horicon. Dr Charles H. Peck, July. The exact year is not given, but the specimens were detected amongst some undetermined material collected between 1907 and 1910.

WYOMING COUNTY

Cathartolinum sulcatum (Riddell) Small

Near Portageville. Dr Charles H. Peck, July 1908. Detected among the undetermined specimens of Professor Peck's collecting, and rather easily distinguished by the united styles.

Lathyrus ochroleucus Hook.

Near Portageville. Dr Charles H. Peck, May 1905. This must be regarded as one of the rare species of the state flora. It was collected nearly three-fourths of a century ago at Watertown, Jefferson county, by Crawe, and in Paine's Catalogue of the Plants of Oneida County and Vicinity two additional localities are mentioned, namely, Gorham, Ontario county (Sartwell), and Monroe county (C. M. Booth). In addition to these stations it has been collected at Penn Yan, Sartwell (in Nat. Herb.); western New York, Sartwell (in Gray Herb.); Lake Chautauqua, J. R. Churchill (in Gray Herb.); Ithaca, Tompkins county by Charles S. Sheldon in 1878 (N. Y. State Herb.); at Belfast, Allegany county, and Carrollton, Cattaraugus county, by Charles H. Peck. With the exception of the Watertown locality, its range appears to be confined in this State to the western and southwestern counties.

The species was collected at Belleville, Ontario, June 1877, by Professor Macoun, a station even farther north than Watertown. Its distribution in New York State is shown by the accompanying map.

A BIBLIOGRAPHY OF THE BOTANY OF NEW YORK STATE

One of the signs of progress in botany is the increasing attention given to the study of local vegetation and its ecological relations. A local flora has been published for nearly every section of the State in addition to a large number of county and sectional floras, which for the most part are exceptionally complete. The number of published papers dealing with various phases of local botany in this State is very large and one of the disadvantages to be encountered in the study of local flora problems is the difficulty of locating quickly the references to the published literature dealing with a given locality or section.

The bibliography here presented aims to group the titles bearing upon the subject in such a manner as to show the nature, quantity and authorship of the various studies upon the flora of the State and its natural and political subdivisions.

Citations dealing with economic botany (agriculture), plant pathology and forestry have been for the most part omitted, although it is obviously difficult to draw a line of distinction, especially where record is made in such articles to native species of fungi or flowering plants constituting an original observation or addition to the flora of some section of the State. Upon this ground alone have several titles dealing with plant pathology, agriculture and forestry been admitted.

Since the aim of this bibliography is to present the citations by localities rather than by authors, the arrangement takes the following order:

1 New York State in General
2 State Botanist's Reports
3 Adirondack Mountains
4 Catskill Mountains
5 Central New York
6 Hudson River Valley
7 Long Island
8 Susquehanna Valley
9 Western New York
10 Citation of Titles by Counties
Index to Citations by Authors

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Britton & Brown. Illustrated Flora. 3 v. 2d edition, revised and enlarged. 1913

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1 NEW YORK STATE

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Report of the Botanist (for 1868). From the 22d Annual Report of the Regents on the New York State Cabinet (for 1868), p. 25–106. 1869

Species growing spontaneously in the State and not before reported, p. 52–105.

Report of the Botanist (for 1869). Appendix C. 23d Report of the Regents on the New York State Cabinet (for 1869), p. 27–135. pl. 1–6. 1873

List of plants found on the exposed summit of Mount Marcy, p. 43–44.

Plants found growing spontaneously in the State and not before reported, p. 49–133 (including synopsis of genera of Agaricaceae and Boletus).

New Stations of Rare Plants and Notable varieties, p. 133–35.

Report of the Botanist (for 1870). From the 24th Report of the Regents on the New York State Museum of Natural History (for 1870), p. 41–108. pl. 1–4. 1872

Plants found growing spontaneously in the State and not before reported, p. 56–103.

The genus Clavaria, p. 104–5.

The genus Aecidium, p. 105–8.

Report of the Botanist (for 1871). From the 25th Annual Report of the New York State Museum of Natural History (for 1871), p. 57–123. pl. 1–2. 1873

Plants found growing spontaneously in the State and not before reported, p. 69–106.

New stations of rare plants, remarkable varieties and observations. p. 107–9.

Synopsis of the New York Pucciniae, p. 110–23.

Report of the Botanist (for 1872). From the 26th Annual Report of the New York State Museum of Natural History (for 1872), p. 35–91. 1874

Plants found growing spontaneously in the State and not before reported, p. 48–87.

New stations of rare plants, remarks, and observations, p. 87–91.

Report of the Botanist (for 1873). From the 27th Annual Report of the New York State Museum of Natural History (for 1873), p. 73–116. 2pl. 1875

Plants found growing spontaneously in the State and not before reported, p. 89–111.

New stations of rare plants, remarks and observations, p. 111–116 (including synopsis of Ustilago).

Report of the Botanist (for 1874). From the 28th Annual Report of the New York State Museum of Natural History (for 1874, p. 31–88. 2pl. 1876

Plants, indigenous and introduced, not before reported, p. 46–82.

New stations of rare plants, remarks and observations, p. 82–88.

(The State Museum edition, published in 1879.)

Report of the Botanist (for 1875). From the 29th Annual Report of the New York State Museum of Natural History, p. 29–82. 2 pl. 1878

Plants not before reported, p. 38–63.

Plants previously reported, remarks and observations, p. 63–71.

Parasitic fungi of New York and their supporting plants, p. 71–82.

Report of the Botanist (for 1876). From the 30th Annual Report of the New York State Museum, p. 23–78. 2 pl. 1878

Species not before reported, p. 37–67.

Remarks and observations, p. 68–78.

Report of the Botanist (for 1877). From the 31st Annual Report of the New York State Museum, p. 19–60. 1879

Plants not before reported, p. 30–51.

New stations, notes and observations, p. 51–54.

List of New York Myxogasters, p. 55–58.

New York species of Helvella, p. 59–60.

New York species of Xylaria, p. 60.

Report of the Botanist (for 1878). From the 32d Annual Report of the New York State Museum, p. 17–72. 1879

Plants not before reported, p. 24–52.

Remarks and observations, p. 52–58.

New York species of Lycoperdon, p. 58–72.

Mosses of Caledonia creek, N. Y., p. 73–74.

Report of the Botanist (for 1879). From the 33d Annual Report of the New York State Museum, p. 11–49. 2 pl. 1880

Plants not before reported, p. 17–34.

Remarks and observations, p. 35–38.
New York species of Amanita, p. 38–49.

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Plants not before reported, p. 41–53.
Remarks and observations, p. 53–58.

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Species not before reported, p. 131–45.
Remarks and observations, p. 145–47.
New York Carices, p. 147–49.
New York species of Lepiota, p. 150–64.

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New stations, remarks and observations, p. 35–40.
New York species of Psalliota, p. 41–49.

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Descriptions of new species of fungi, p. 5–24.
Additions to the flora of the State of New York in 1883, with remarks and observations, p. 25–28.
New York species of Paxillus, p. 29–33.
New York species of Cantherellus, p. 33–43.
New York species of Craterellus, p. 44–48.
Names of New York species of Pyrenomycetous fungi, p. 49–56.
New York species of Viscid Boleti, p. 57–66.

Report of the Botanist (for 1884). From the 38th Annual Report of the New York State Museum of Natural History, p. 77–138. 3 pl. 1885

Plants not before reported, p. 83–106.
Remarks and observations, p. 106–11.
New York species of Lactarius, p. 111–33.
New York species of Pluteus, p. 133–38.

Report of the Botanist (for 1885). From the 39th Annual Report of the Trustees of the State Museum of Natural History (for 1885), p. 30–73. 2 pl. 1886

Plants not before reported, p. 38–53.
Remarks and observations, p. 53–58.
New York species of Pleurotus, p. 58–67.
New York species of Claudopus, p. 67–69.
New York species of Crepidotus, p. 69–73.

Report of the Botanist (for 1886). From the 40th Annual Report of the Trustees of the State Museum of Natural History (for 1886), p. 39–77. 1887

Plants not before reported, p. 52–71.
Notes and observations, p. 72–77.

Report of the State Botanist (for 1887). From the 41st Annual Report of the Trustees of the State Museum of Natural History, p. 49–122. 1888

Plants not before reported, p. 56–81.
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Fungi Destructive to Wood, by P. H. Dudley, p. 86–94.
Botanical index to New York State Museum Reports 22 to 38, p. 94–122.

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Remarks and observations, p. 35–39.
New York species of Clitopilus, p. 39–46.

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Plants not before reported, p. 16–36.
Remarks and observations, p. 36–40.
New York species of Armillaria, p. 30–45.
Fungi causing decay of timbers (a letter from P. H. Dudley), p. 45–47.

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Remarks and observations, p. 30–38.
New York species of Tricholoma, p. 38–64.
Fungi of Maryland (Mary E. Banning) (C. H. Peck), p. 64–75.

Annual Report of the State Botanist (1891). From the 45th Report of the New York State Museum, p. 63–102. 1892. Bot. ed., p. 1–42. 1893

Plants not before reported, p. 17–25.
Remarks and observations, p. 25–31.
New York species of Omphalia, p. 32–42.

Annual Report of the State Botanist (1892). From the 46th Report of the New York State Museum, p. 83–149. 1893. Bot. ed., p. 1–69. 1893

Species not before reported, p. 18–36.
Extralimital species, p. 37–40.
Notes and observations, p. 40–58.
New York species of Pluteolus, p. 58–61.
New York species of Galera, p. 61–69.

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Species not before reported, p. 16–26.
Remarks and observations, p. 27–43.
List of New York fungi represented at the World's Columbian Exposition at Chicago, p. 43–48.

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Species not before reported, p. 11–17.
Remarks and observations, p. 17–20.
New York species of Carex, by E. C. Howe, p. 20–104.
Edible and Poisonous Fungi of New York (pl. A & 1–43), p. 105–238.
(Catalogue of New York Woods (Mus. ed.), p. 16–20).

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Remarks and observations, p. 25–32.
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Edible Fungi (pl. 44–49), p. 56–69.

Annual Report of the State Botanist (1896). From the 50th Report of the New York State Museum, p. 77–159. 1898

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Remarks and observations, p. 119–33.
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Report of the State Botanist (1897). Reprinted from 51st Annual Report of the New York State Museum, p. 267–321. 1899

Species not before reported (pl. A, B), p. 277–96.
Remarks and observations, p. 296–300.
Edible fungi (pl. 50–56), p. 300–12.

Report of the State Botanist (1898). New York State Museum Bul. 25, p. 618–88. 1900

(Reprinted from 52d Report of the New York State Museum).

List of changed names (in Illustrated Flora) from those of Gray's Manual, p. 628–42.
Species not before reported, p. 642–50.
Remarks and observations, p. 651–56.
Plants of the summit of Mount Marcy, p. 657–73.
Edible fungi (pl. 57–61), p. 673–82.

The descriptions and illustrations of edible and unwholesome species of fungi contained in the 49th, 51st and 52d reports have been revised and rearranged and combined with others more recently prepared and constitute Museum Memoir 4. 106 p. 25 pl. 1900. Same, Museum Report 53 (for 1899) 2:129–234. 25pl. 1901.

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Species not before reported (pl. A–D), p. 835–49.
Remarks and observations, p. 849–58.
Plants of Bonaparte swamp, p. 858–61.
Plants of North Elba, New York State Museum Bul. 28, p. 65–266.

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Species not before reported (pl. E–I), p. 143–57.
Remarks and observations, p. 158–72.
Edible fungi (pl. 69–76), p. 173–86.

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Remarks and observations, p. 131–35.
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NEW YORK COUNTY

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Wild Flowers of New York

Explanations of plates

Plate 1

107

PEARLY EVERLASTING

(Compositae)

Anaphalis margaritacea (L.) Benth. & Hooker

A white-tomentose or woolly perennial herb, the erect leafy stem corymbosely branched at the summit, 1–3 feet high. The alternate, entire leaves linear-lanceolate, sessile, revolute, green but pubescent above and woolly beneath, 3–5 inches long, heads of flowers numerous in a compound corymb, 2–8 inches broad, each head one-quarter to one-third inch broad when expanded; involucre campanulate, its bracts ovate-lanceolate, obtuse, pearly white; flowers cream-colored becoming yellowish; staminate flowers with a slender or filiform corolla, an undivided style and pappus bristles not thickened at the summit or scarcely so; pistillate flowers with a tubular 5-toothed corolla, 2-cleft style and a pappus of distinct capillary bristles which fall away separately.

Rather common in dry soil, especially on abandoned fields, old pastures, roadsides and door yards, and open woods from Newfoundland to Alaska, Pennsylvania, Kansas and Oregon. Flowering from August to October.

The dry chaffy character of the involucre of the flowers suggests the appropriate name of everlasting. Clusters may be gathered and placed in a vase or other receptacle without water and kept for an indefinite length of time. They are sometimes subjected to various dyes but it is doubtful if this adds anything to their attractiveness. In florists shops they are frequently seen dyed a brilliant red.

Pearly Everlasting (Compositæ)

Anaphalis margaritacæ (Linn.) Benth. & Hooker

Plate 2

109

PALE TOUCH-ME-NOT

(Balsaminaceae)

Impatiens pallida Nuttall

A tall, stout, annual herbaceous plant with rather succulent stems and alternate, simple, dentate and petioled, thin, ovate to elliptic leaves, pale and somewhat glaucous beneath, 1–4 inches long; flowers showy, pale yellow, 1–1½ inches long on axillary peduncles, irregular, sparingly dotted with reddish brown or sometimes without spots, sepals 3, the 2 lateral ones small, green, nerved, the posterior one large, petaloid, and forming the conspicuous sac which terminates in a short spreading spur; petals 3, with 2 of them 2-cleft into dissimilar lobes; stamens 5, short; filaments appendaged by scales on their inner side and more or less united; gruit an oblong or linear capsule, elastically and violently dihiscent at the slightest touch when mature into 5 spirally coiled valves, expelling the oblong, ridged seeds; small and inconspicuous cleistogamous flowers without petals are frequently developed following the petaliferous flowers.

In moist grounds, most frequent in shaded situations along streams and springy places in woods, Nova Scotia to Saskatchewan, Georgia and Kansas. Apparently not so abundant as the spotted touch-me-not which possesses orange-yellow flowers. Flowering from July to September.

The rapidity with which the flowers and leaves of the wild touch-me-nots wither prevents its use as an ornamental cutflower species although its relative, the balsam or garden touch-me-not, with purple or white flowers, is frequent in cultivation. This species is also known as the pale or yellow jewelweed.

Pale Touch-Me-Not (Balsaminaceæ)

Impatiens pallida Nuttall

Plate 3

WINTERGREEN

(Ericaceae)

Gaultheria procumbens L.

A low, aromatic, semi-woody plant with creeping or subterranean, perennial stems, branches erect or nearly so, 2–6 inches high, bearing several oval, oblong or obovate, obtuse or acute, thick, evergreen leaves, dark green and shining above, pale beneath, 1–2 inches long, margins slightly revolute and serrate with low bristle-tipped teeth; flowers white, usually solitary in the axils of the leaves, on recurved peduncles; corolla ovoid-urceolate, with 5 recurved teeth. Stamens 10, included and inserted at base of the corolla, the anther sacs opening by a terminal pore; fruit depressed-globose, usually slightly 5-lobed, bright red when mature, one-third to one-half inch in diameter, mealy and very spicy in flavor.

In woods and open places, especially under or near evergreen trees, most abundant in sandy regions, Newfoundland to Manitoba, New Jersey, Georgia, West Virginia, Indiana and Michigan. Flowering from June to early September, the fruit ripe in late autumn and persisting on the branches well into the next season.

The generic name was given to this plant by Peter Kalm in honor of Doctor Gaultier who lived at Quebec in the middle of the eighteenth century.

Wintergreen (Ericaceæ)

Gaultheria procumbens Linn.

Plate 4

INDIAN PIPE

(Ericaceae)

Monotropa uniflora Linn.

A white, scapose, succulent plant growing usually in clusters from a mass of matted, brittle roots, attached to partially decayed organic matter in the soil, stems 4–10 inches high, erect, each with a solitary nodding, terminal, inodorous, oblong-campanulate flower, one-half to 1 inch long; the fruit, which is a 5-celled, many-seeded capsule becoming erect; sepals 2–4, deciduous; petals 4–5 (rarely 6), puberulent within, white, somewhat longer than the stamens which are usually ten in number; ovary ovoid, acute, narrowed into the short, thick style and funnelform stigma.

In moist, rich woods, Anticosti to Florida, west to Washington and California.

The Indian pipe or corpse-plant, as it is frequently known, is one of the few flowering plants which possesses a saprophytic habit, and is in consequence devoid of green leaves or green color in the stems.

Indian Pipe (Ericaceæ)

Monotropa uniflora Linn.

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The University of the State of New York

New York State Museum

JOHN M. CLARKE, Director

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Museum annual reports 1847–date. *All in print to* 1894, 50c *a volume*, 75c *in cloth; 1894–date, sold in sets only;* 75c *each for octavo volumes; price of quarto volumes on application.*

These reports are made up of the reports of the Director, Geologist, Paleontologist, Botanist and Entomologist, and museum bulletins and memoirs, issued as advance sections of the reports.

Director's annual reports 1904–date.

1904. 138p. 20c.
1905. 102p. 23pl. 30c.
1906. 186p. 41pl. 25c.
1907. (Bul. 121) 212p. 63pl. 50c.
1908. (Bul. 133) 234p. 39pl. map. 40c.
1909. (Bul. 142) 230p. 41pl. 2 maps, 4 charts. *Out of print*
1910. (Bul. 149) 280p. il. 42pl. 50c.
1911. (Bul. 158) 218p. 49pl. 50c.
1912. (Bul. 164) 214p. 50pl. 50c.
1913. (Bul. 173) 158p. il. 29pl. 40c.
1914. (Bul. 177) 174p. il. 33pl. 45c.
1915. (Bul. 187) 192p. il. 58pl. 5 maps. 50c.

These reports cover the reports of the State Geologist and of the State Paleontologist. Bound also with the museum reports of which they form a part.

Geologist's annual reports 1881–date. Rep'ts 1, 3–13, 17–date, 8vo; 2, 14–16, 4to.

In 1898 the paleontologic work of the State was made distinct from the geologic and was reported separately from 1899-1903. The two departments were reunited in 1904, and are now reported in the Director's report.

The annual reports of the original Natural History Survey, 1837–41, are out of print.

Reports 1–4, 1881–84, were published only in separate form. Of the 5th report 4 pages were reprinted in the 39th museum report, and a supplement to the 6th report was included in the 40th museum reports. The 7th and subsequent reports are included in the 41st and following museum reports, except that certain lithographic plates in the 11th report (1891) and 13th (1893) are omitted from the 45th and 47th museum reports.

Separate volumes of the following only are available.

Report	*Price*	*Report*	*Price*	*Report*	*Price*
12 (1892)	$.50	17	$.75	21	$.40
14	.75	18	.75	22	.40
15, 2v.	2	19	.40	23	.45
16	1	20	.50	[*See* Director's annual reports]	

Paleontologist's annual reports 1899–date.

See first note under Geologist's annual reports.

Bound also with museum reports of which they form a part. Reports for 1899 and 1900 may be had for 20c each. Those for 1901–3 were issued as bulletins. In 1904 combined with the Director's report.

Entomologist's annual reports on the injurious and other insects of the State of New York 1882–date.

Reports 3–20 bound also with museum reports 40–46, 48–58 of which they form a part. Since 1898 these reports have been issued as bulletins. Reports 3–4, 17 are out of print, other reports with prices are:

Report	*Price*	*Report*	*Price*	*Report*	*Price*
1	$.50	11	$.25	21 (Bul. 104)	$.25
2	.30	12	.25	22 (" 110)	.25
5	.25	13	*Out of print*	23 (" 124)	.75
6	.15	14 (Bul. 23)	.20	24 (" 134)	.35
7	.20	15 (" 31)	.15	25 (" 141)	.35
8	.25	16 (" 36)	.25	26 (" 147)	.35
9	.25	18 (" 64)	.20	27 (" 155)	.40
10	.35	19 (" 76)	.15	28 (" 165)	.40
		20 (" 97)	.40	29 (" 175)	.45

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Reports 2, 8–12 may also be obtained bound in cloth at 25c each in addition to the price given above.

Botanist's annual reports 1867–date.

Bound also with museum reports 21–date of which they form a part; the first Botanist's report appeared in the 21st museum report and is numbered 21. Reports 21–24, 29, 31–41 were not published separately.

Separate reports for 1871–74, 1876, 1888–98 are out of print. Report for 1899 may be had for 20c; 1900 for 50c. Since 1901 these reports have been issued as bulletins.

Descriptions and illustrations of edible, poisonous and unwholesome fungi of New York have also been published in volumes 1 and 3 of the 48th (1894) museum report and in volume 1 of the 49th (1895), 51st (1897), 52d (1898), 54th (1900), 55th (1901), in volume 4 of the 56th (1902), in volume 2 of the 57th (1903), in volume 4 of the 58th (1904), in volume 2 of the 59th (1905), in volume 1 of the 60th (1906), in volume 2 of the 61st (1907), 62d (1908), 63d (1909), 64th (1910), 65th (1911) reports. The descriptions and illustrations of edible and unwholesome species contained in the 49th, 51st and 52d reports have been revised and rearranged, and, combined with others more recently prepared, constitute Museum Memoir 4.

Museum bulletins 1887–date. 8vo. *To advance subscribers, $2 a year, or $1 a year for division* (1) *geology, economic geology, paleontology, mineralogy; 50c each for division* (2) *general zoology, archeology, miscellaneous,* (3) *botany,* (4) *entomology.*

Bulletins are grouped in the list on the following pages according to divisions.
The divisions to which bulletins belong are as follows:

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3 Economic Geology
4 Mineralogy
5 Entomology
6 "
7 Economic Geology
8 Botany
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11 "
12 "
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